

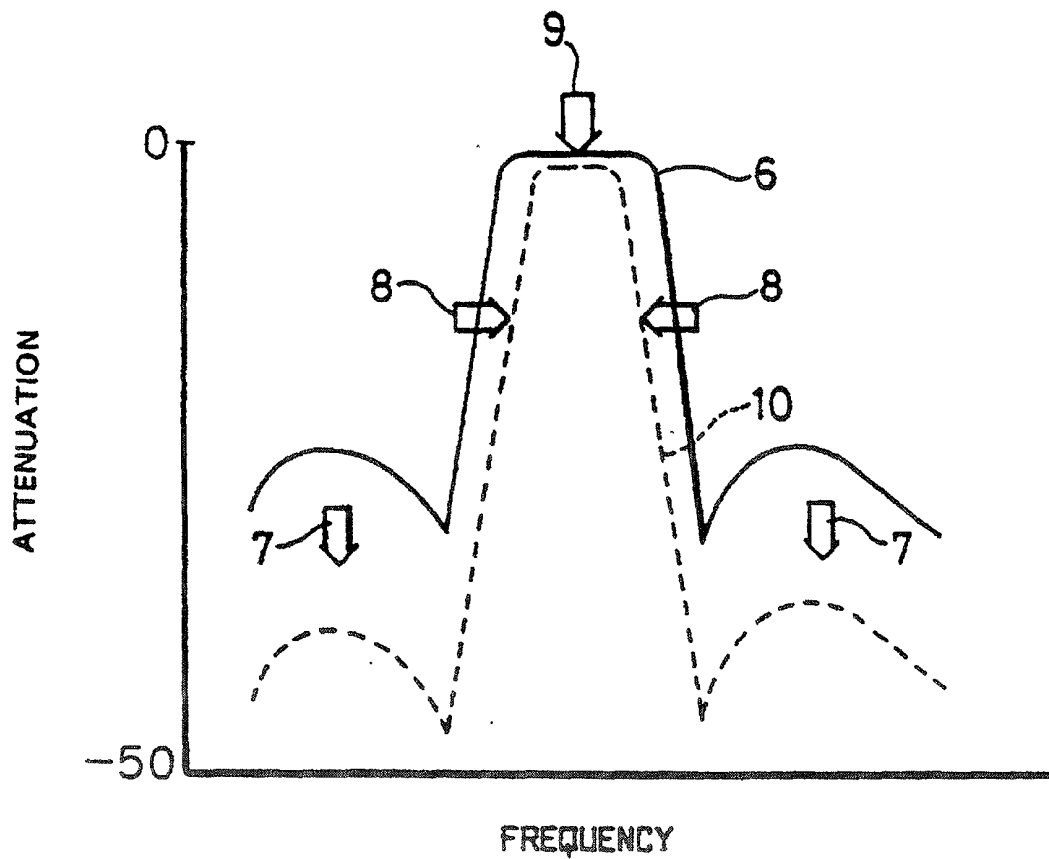
*FIG. 2 PRIOR ART*

FIG. 3

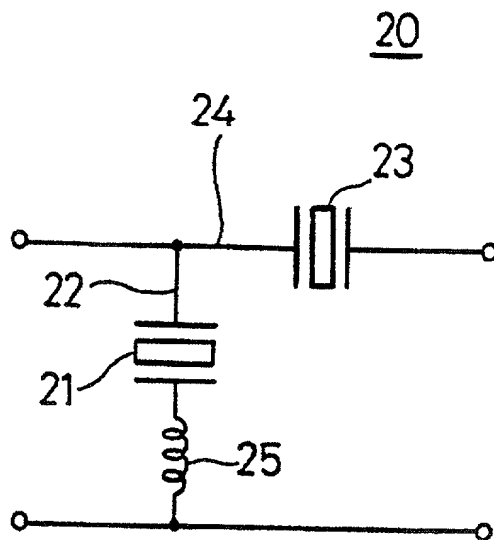
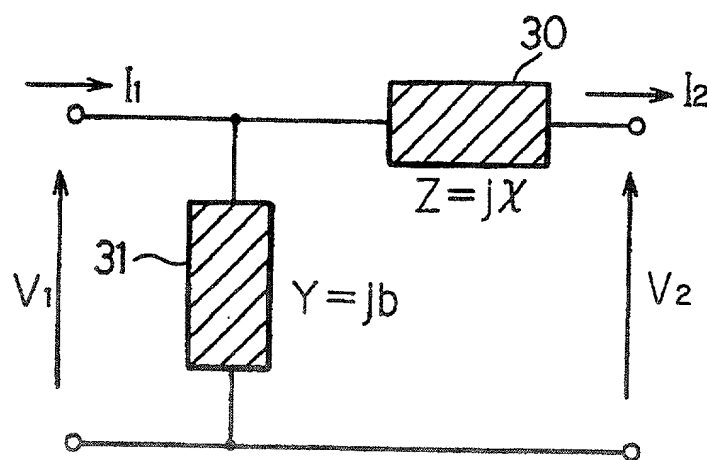


FIG. 4



F MATRIX

$$\begin{pmatrix} V_1 \\ I_1 \end{pmatrix} = \begin{pmatrix} A & B \\ C & D \end{pmatrix} \begin{pmatrix} V_2 \\ I_2 \end{pmatrix}$$

FIG. 5A

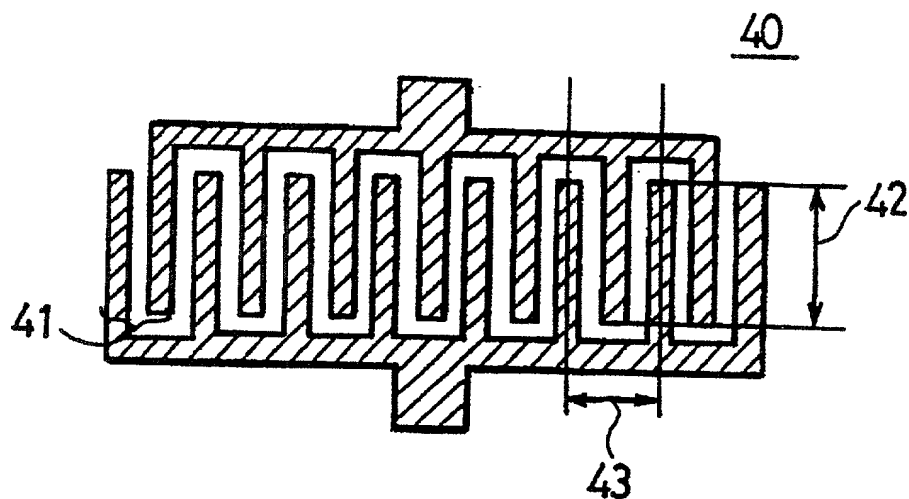


FIG. 5B

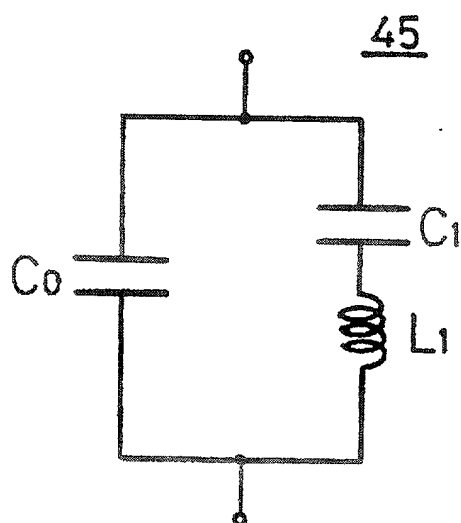


FIG. 5C

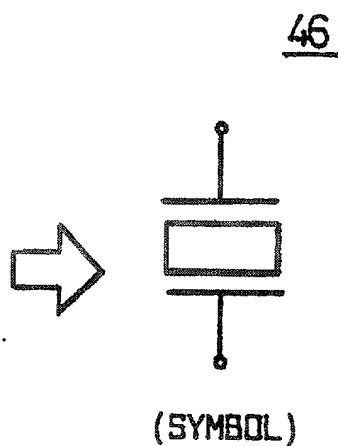


FIG. 5A

FIG. 6A

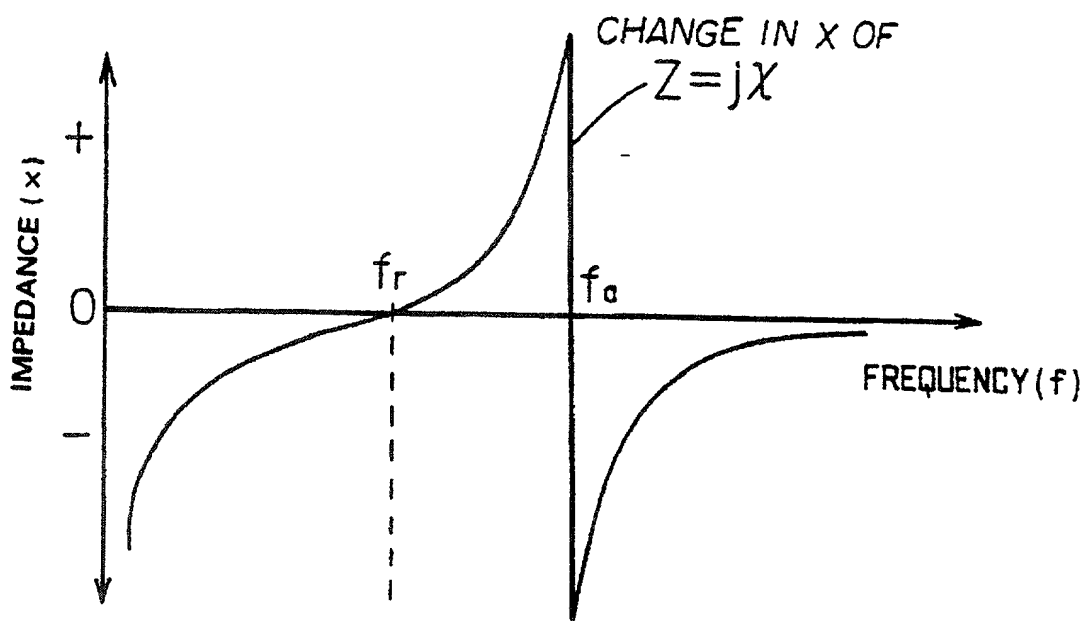
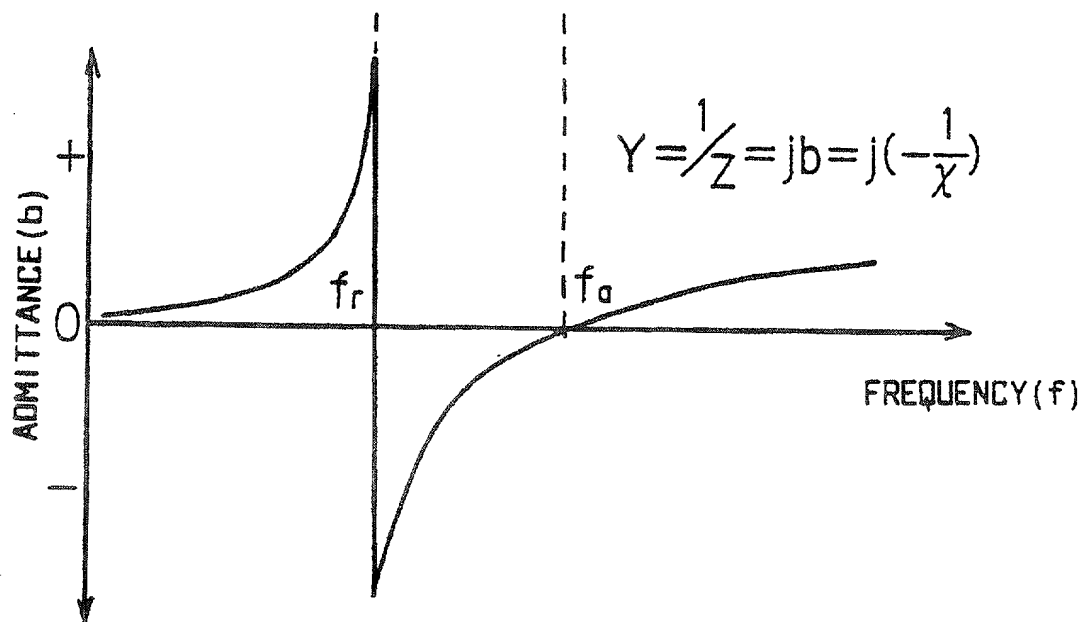


FIG. 6B



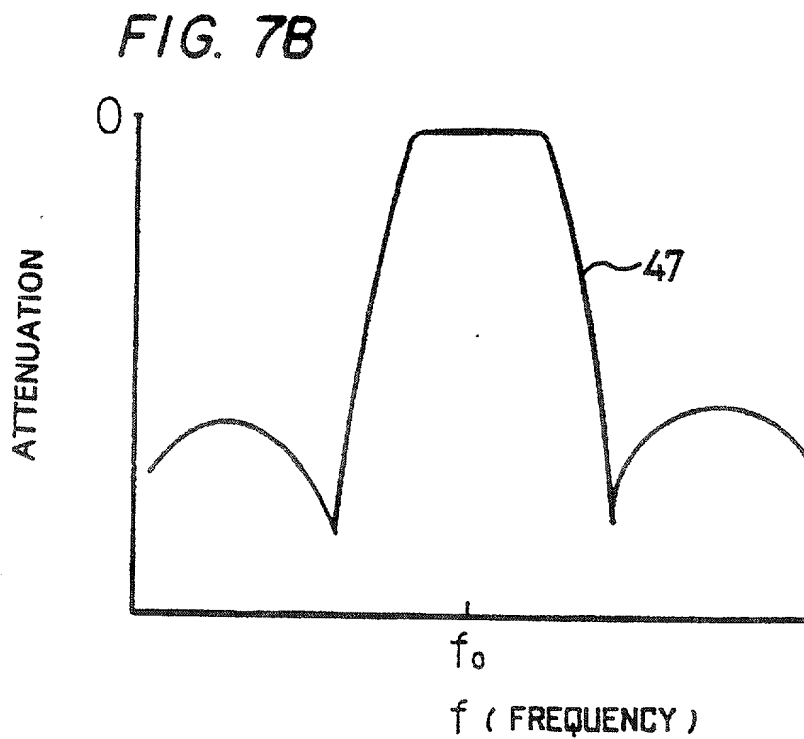
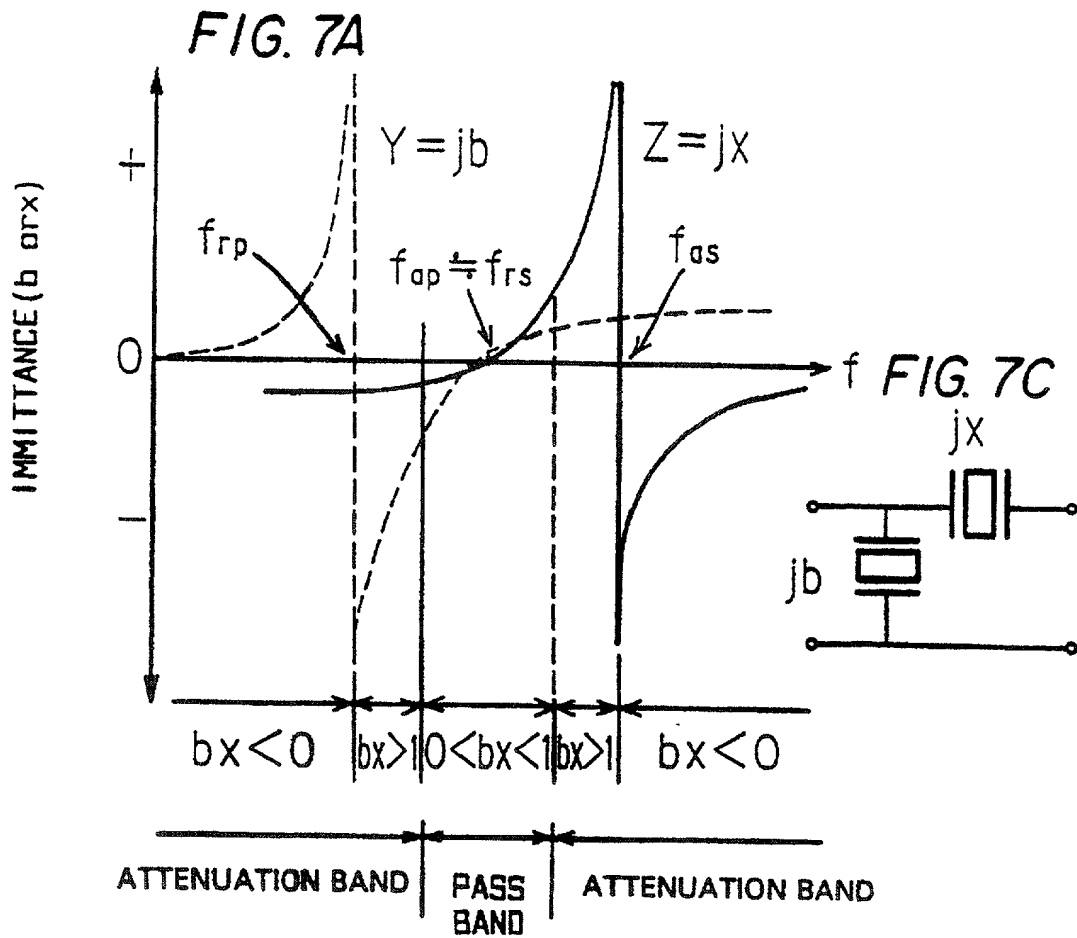


FIG. 8A

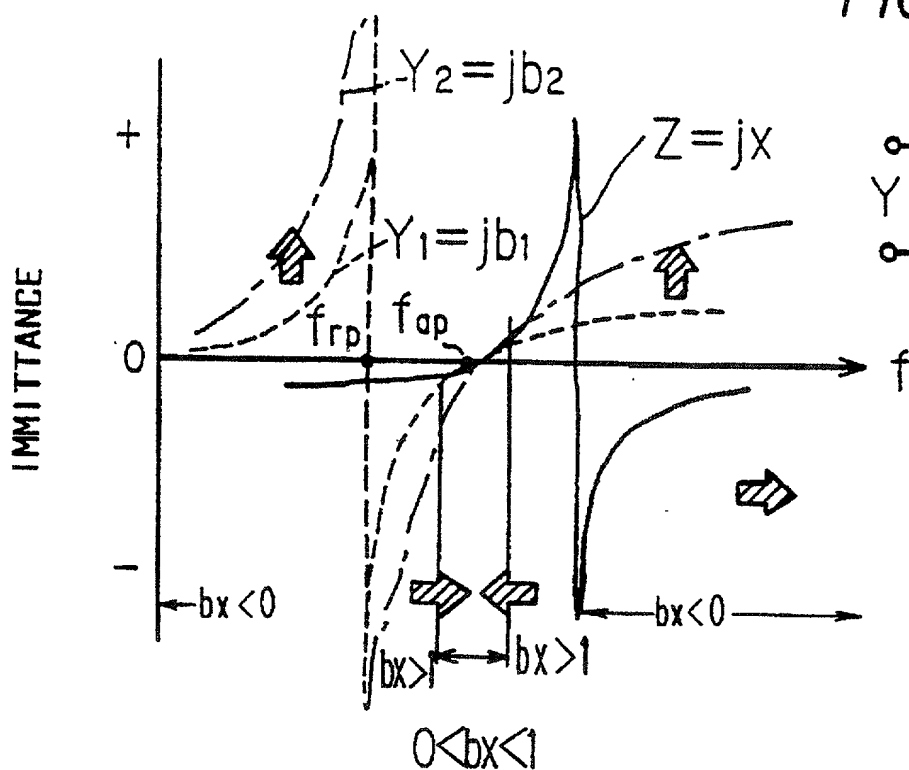


FIG. 8C

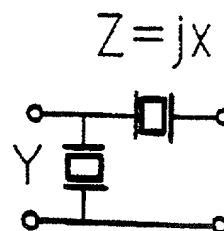


FIG. 8B

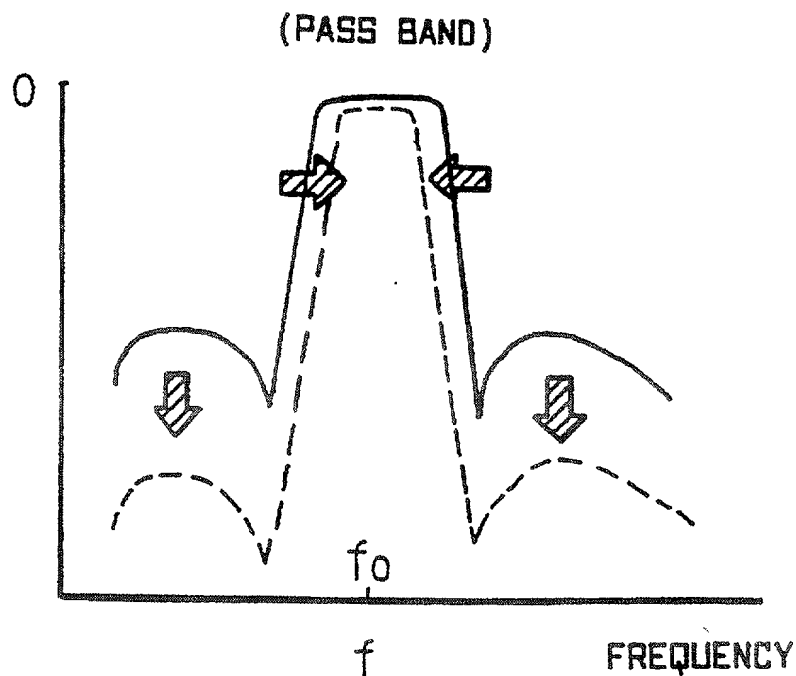


FIG. 9A

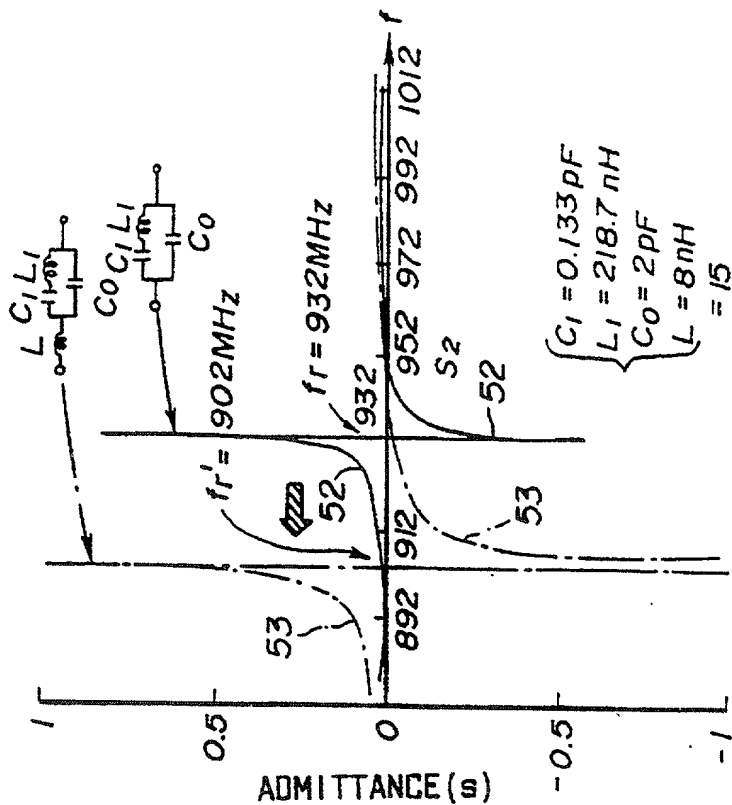


FIG. 9B

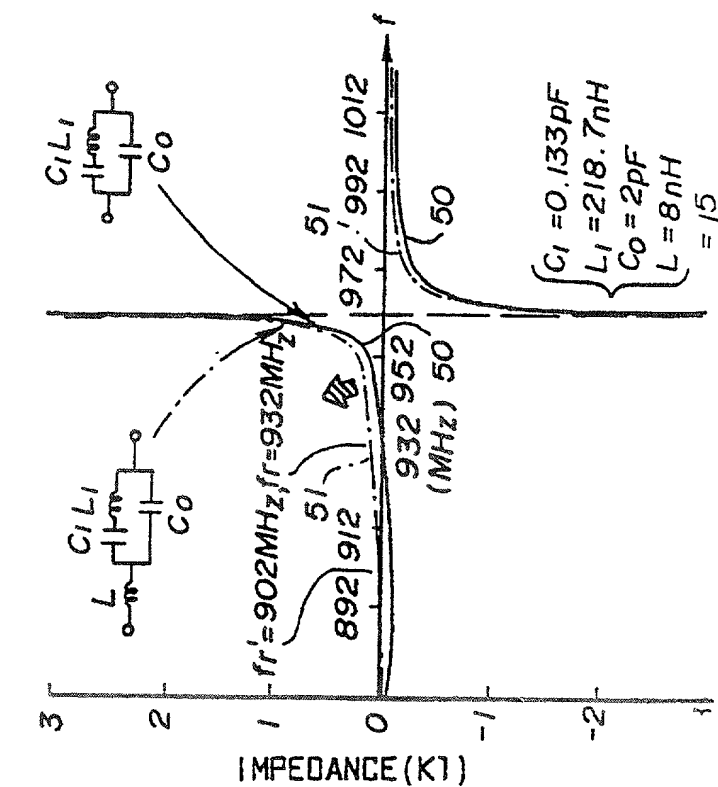


FIG. 10A

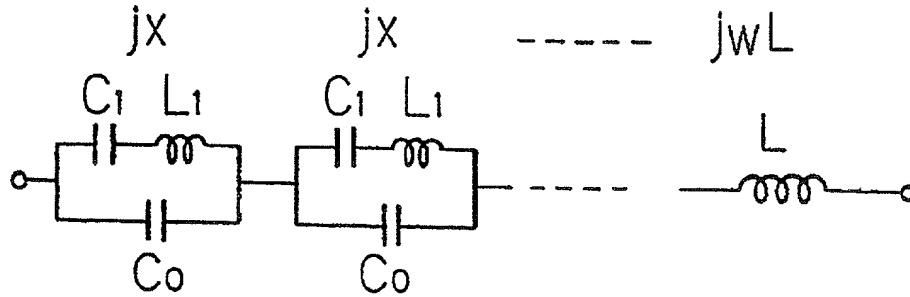


FIG. 10B

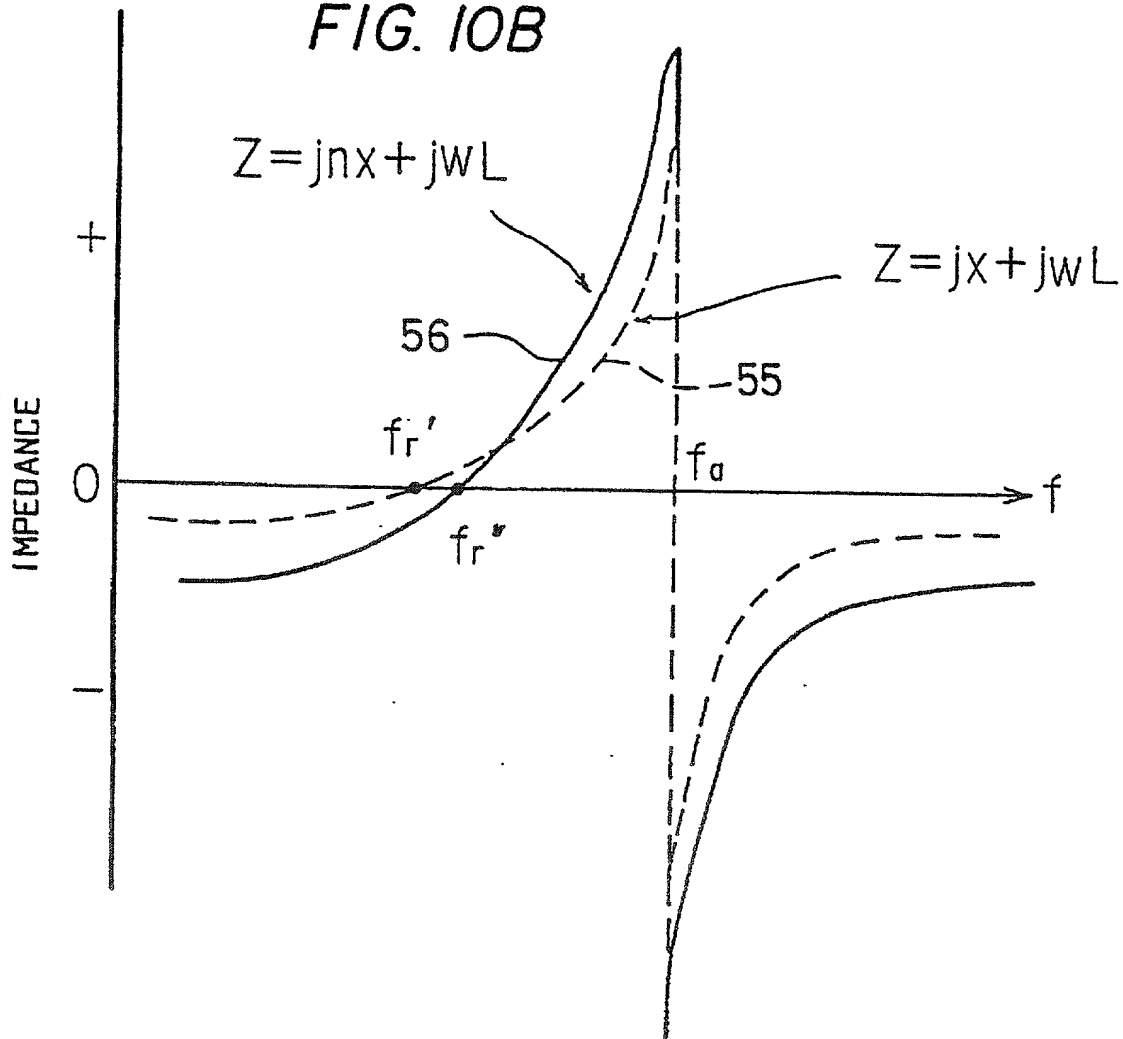


FIG. 10B



FIG. IIA

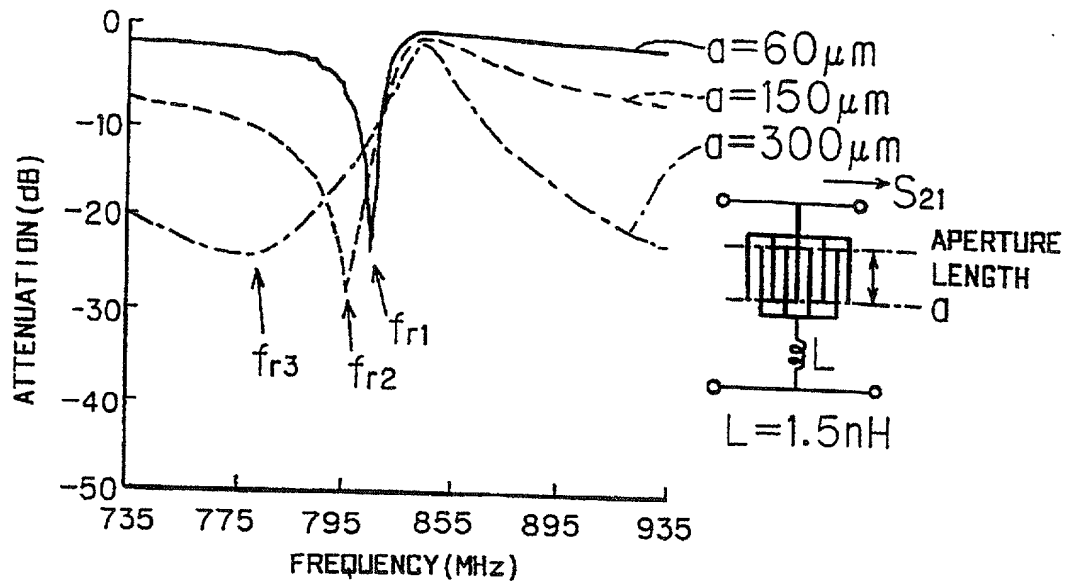


FIG. IIB

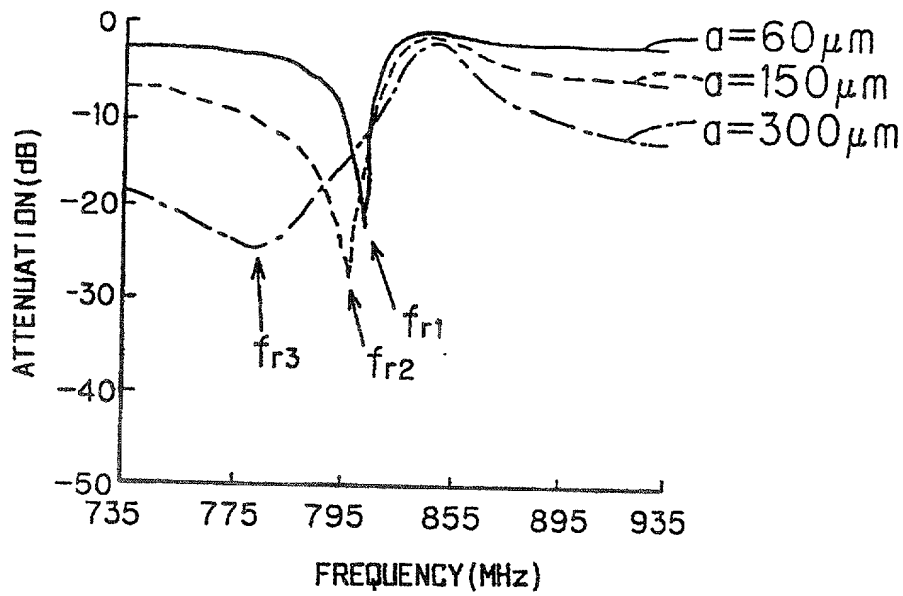


FIG. 12A

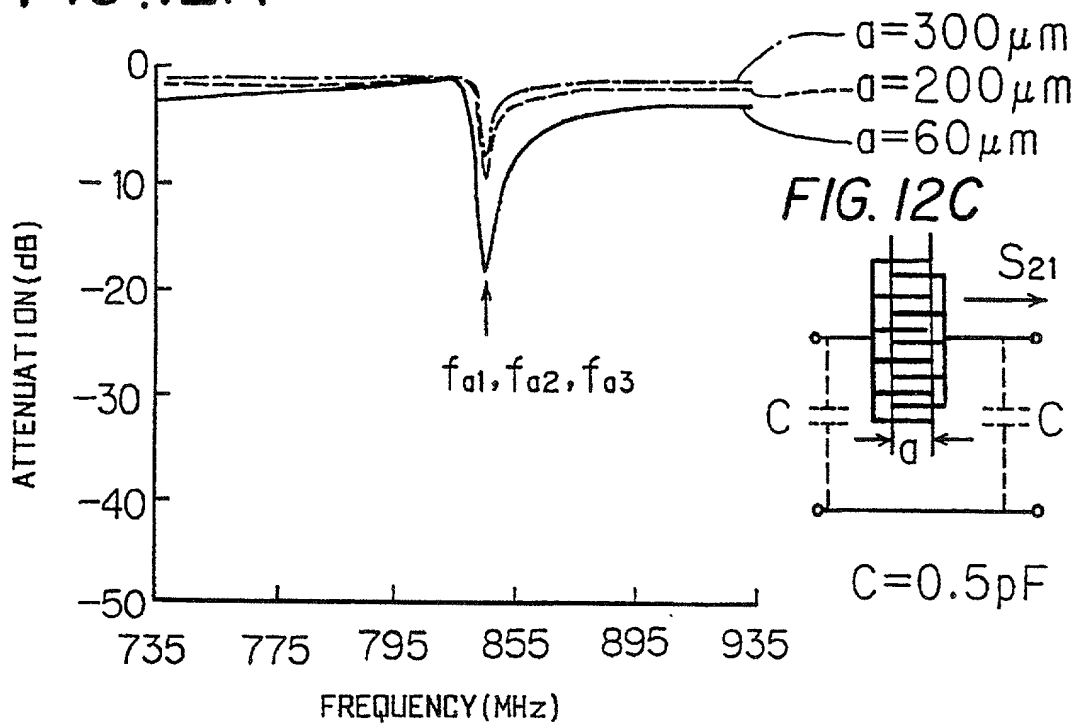


FIG. 12B

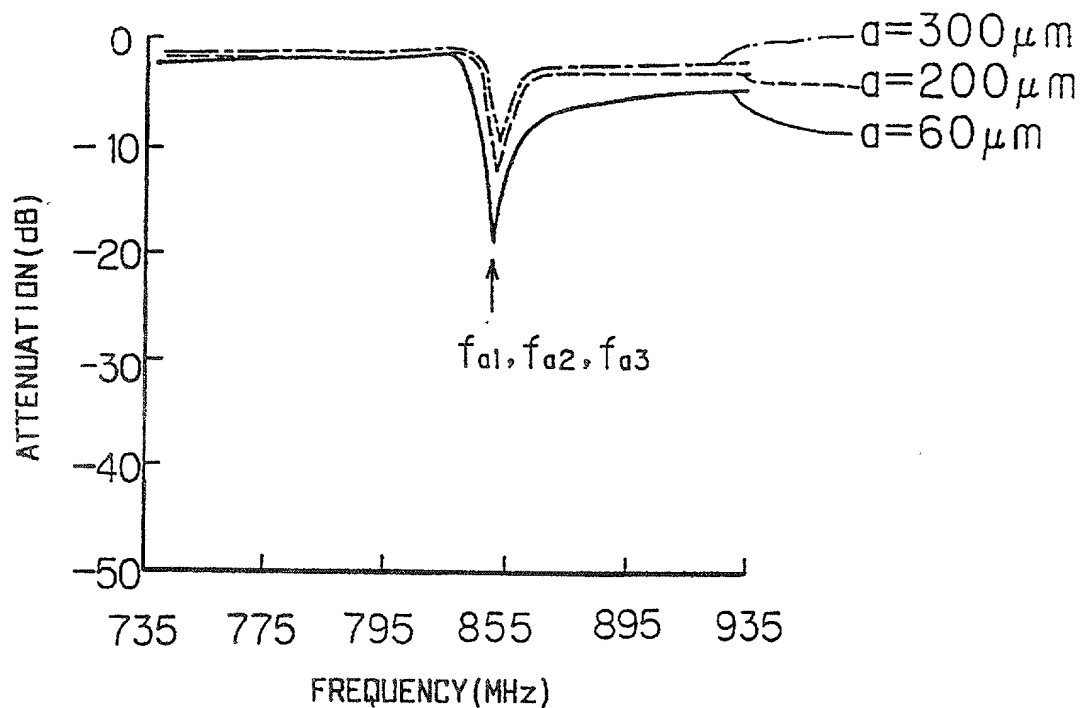


FIG. 13

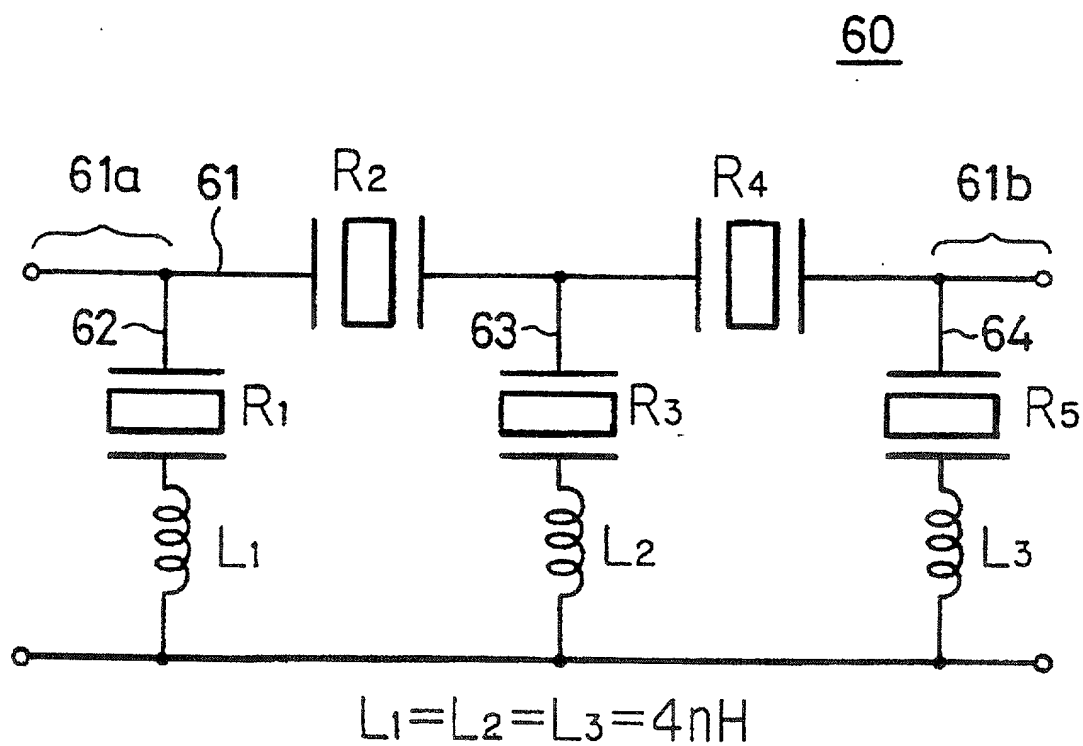


FIG. 14

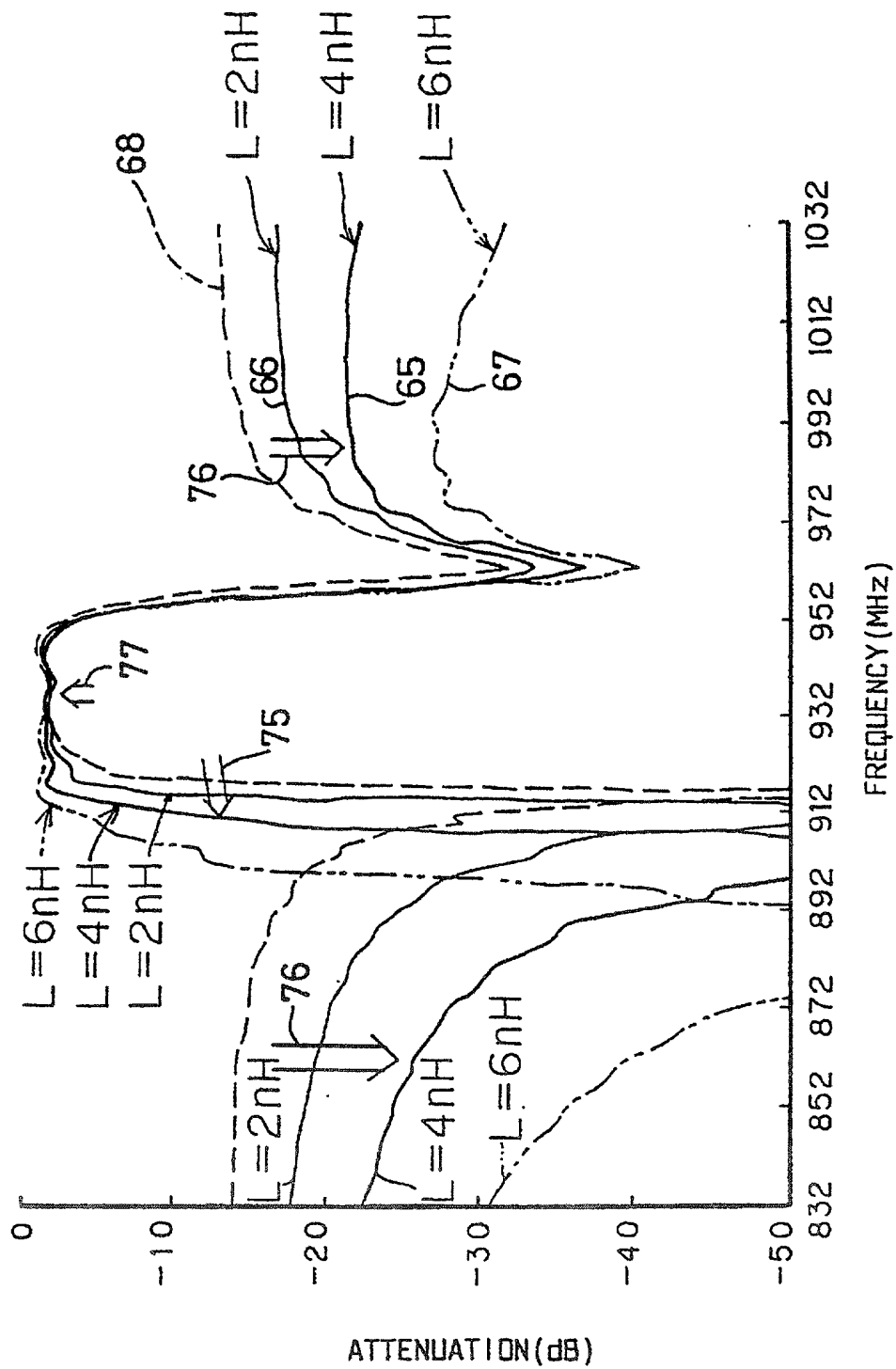


FIG. 15A

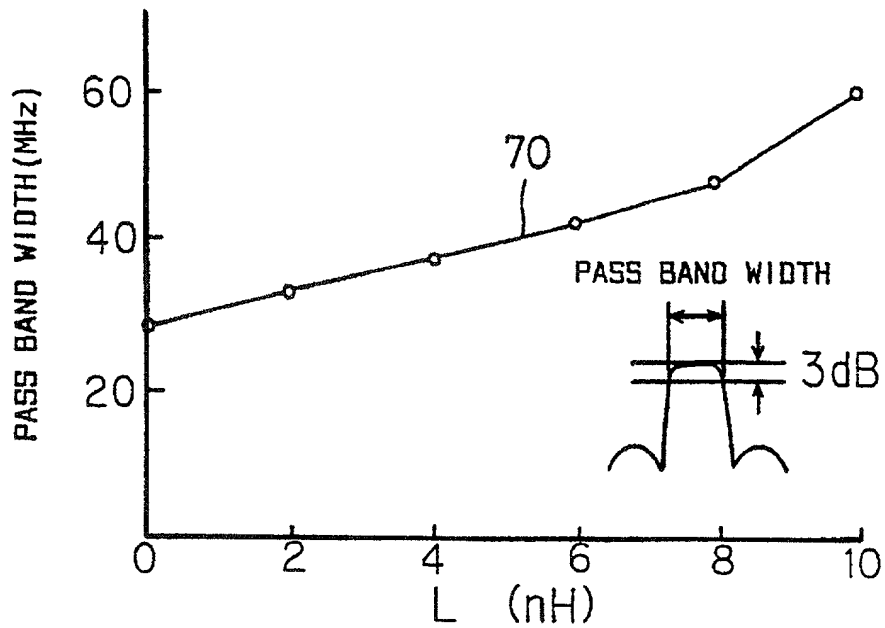
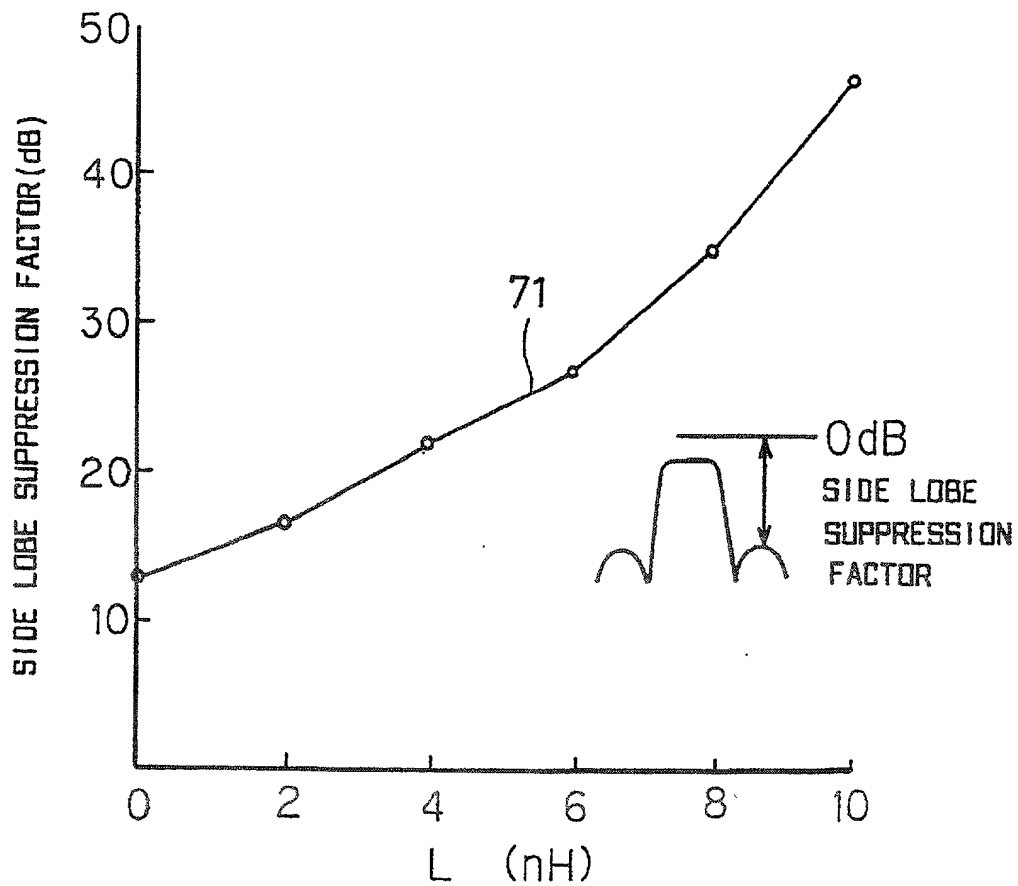


FIG. 15B



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FIG. 16

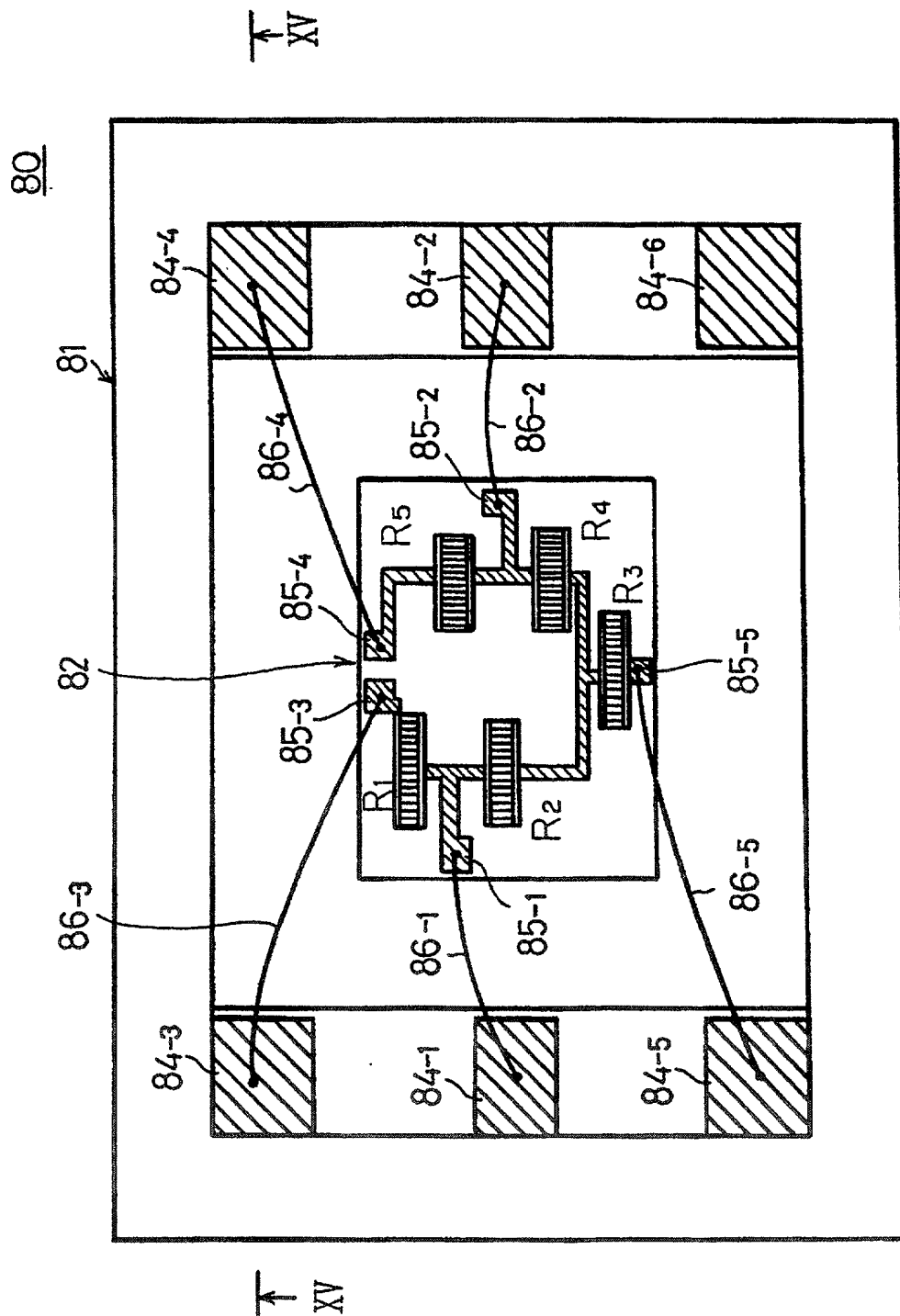


FIG. 17

80

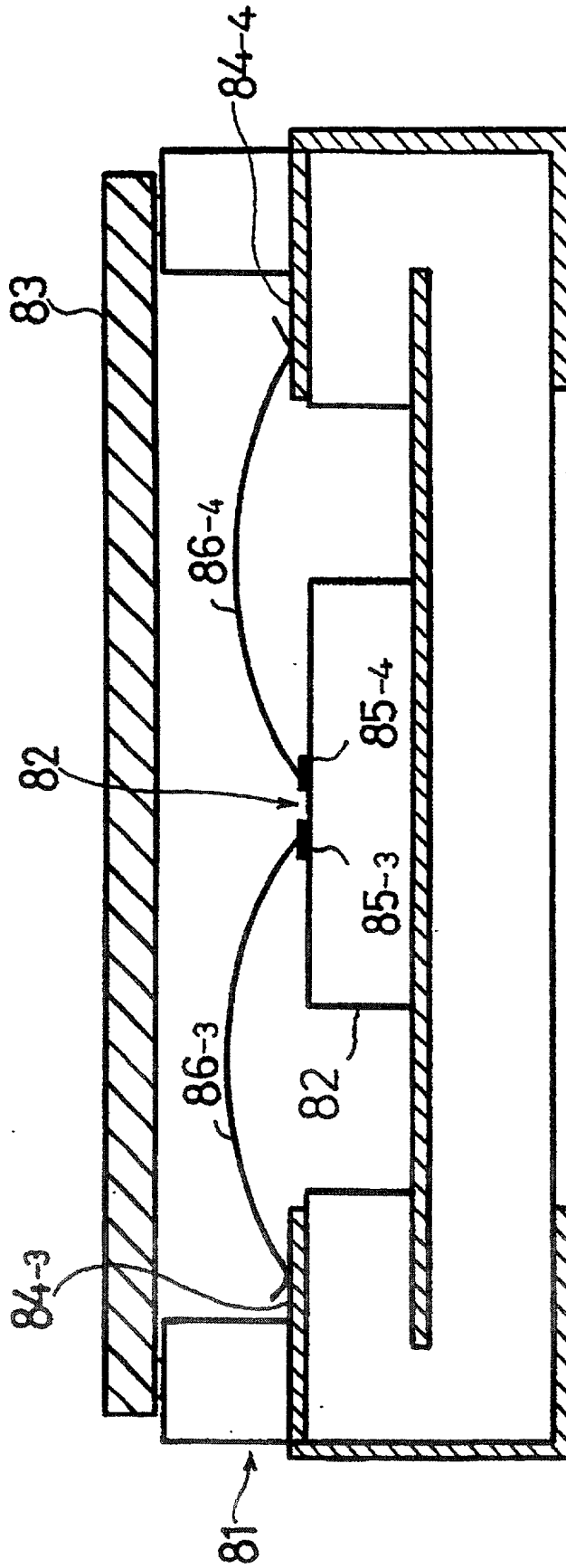


FIG. 18

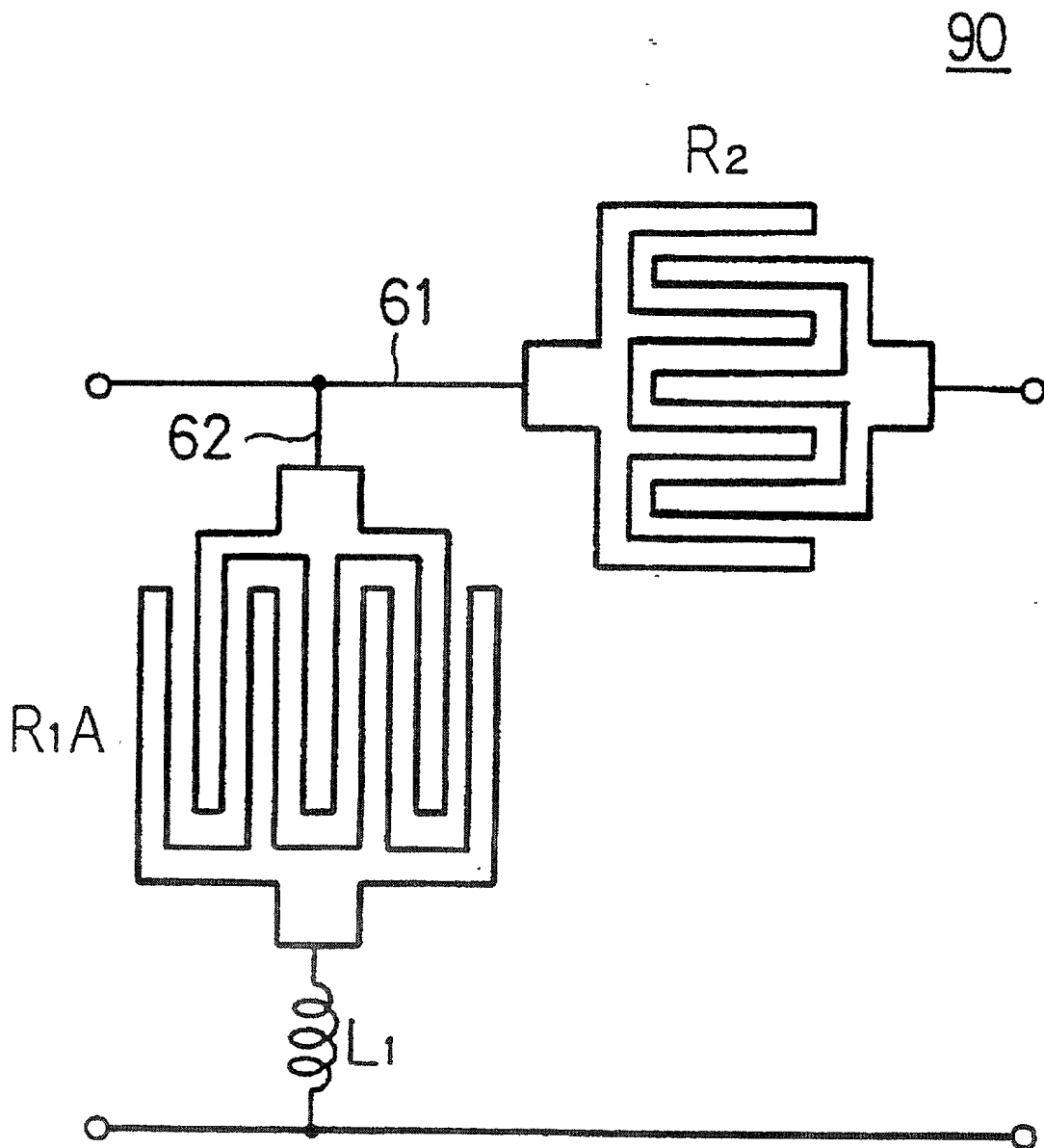




FIG. 19

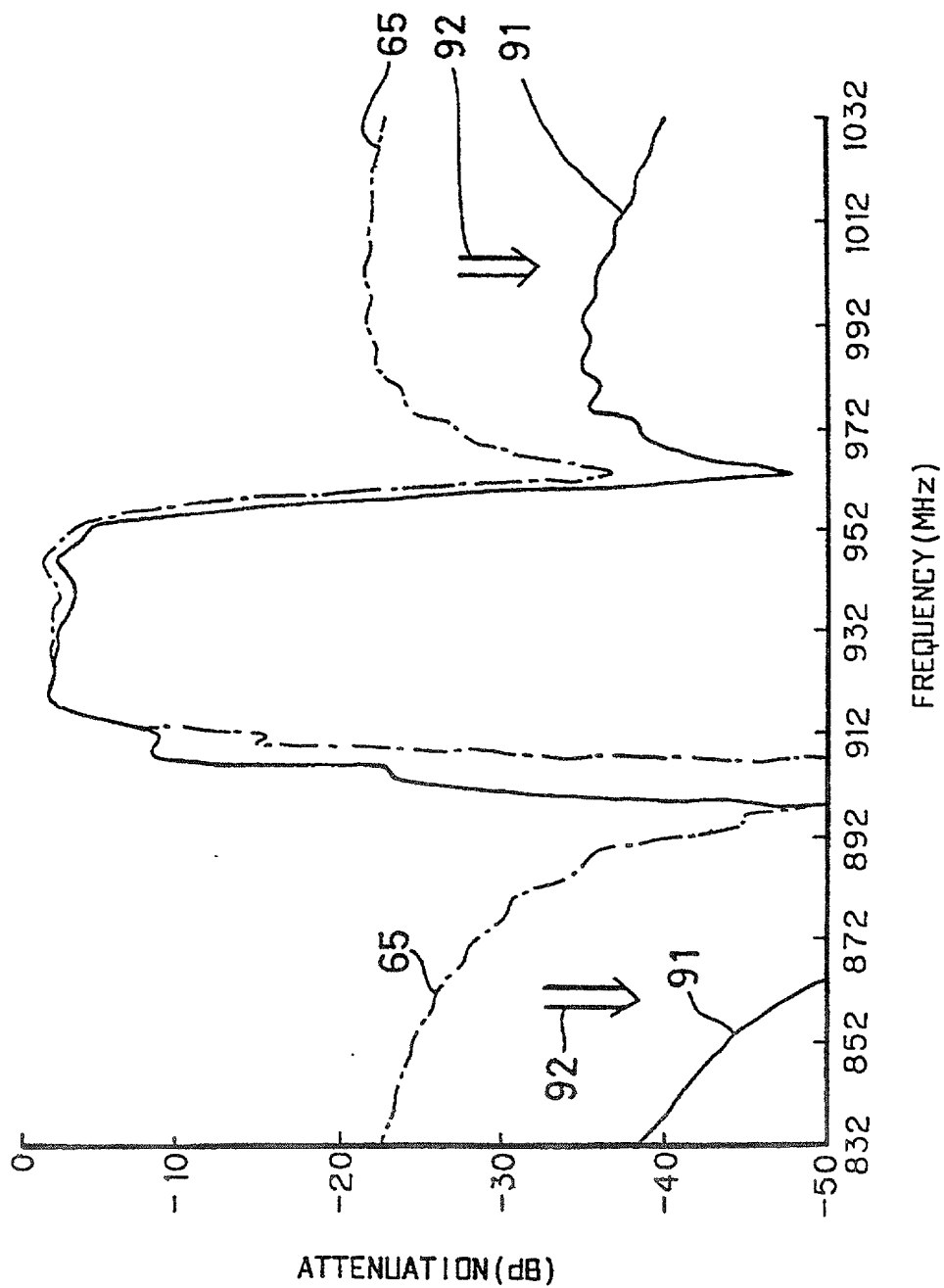


FIG. 20A

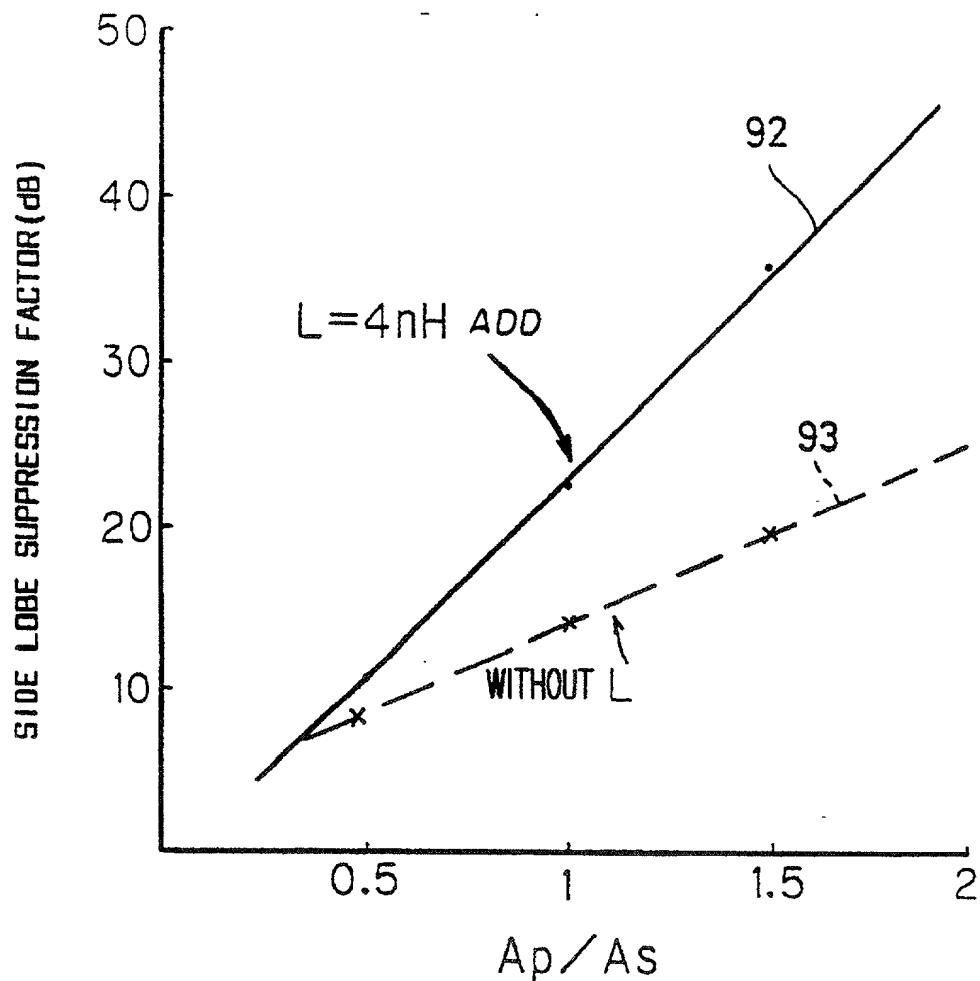


FIG. 20B

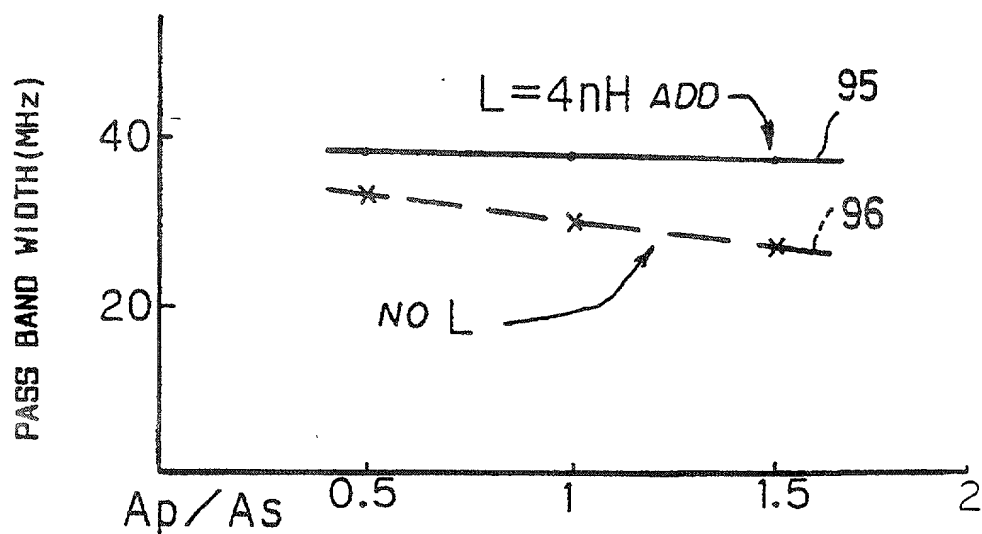


FIG. 21

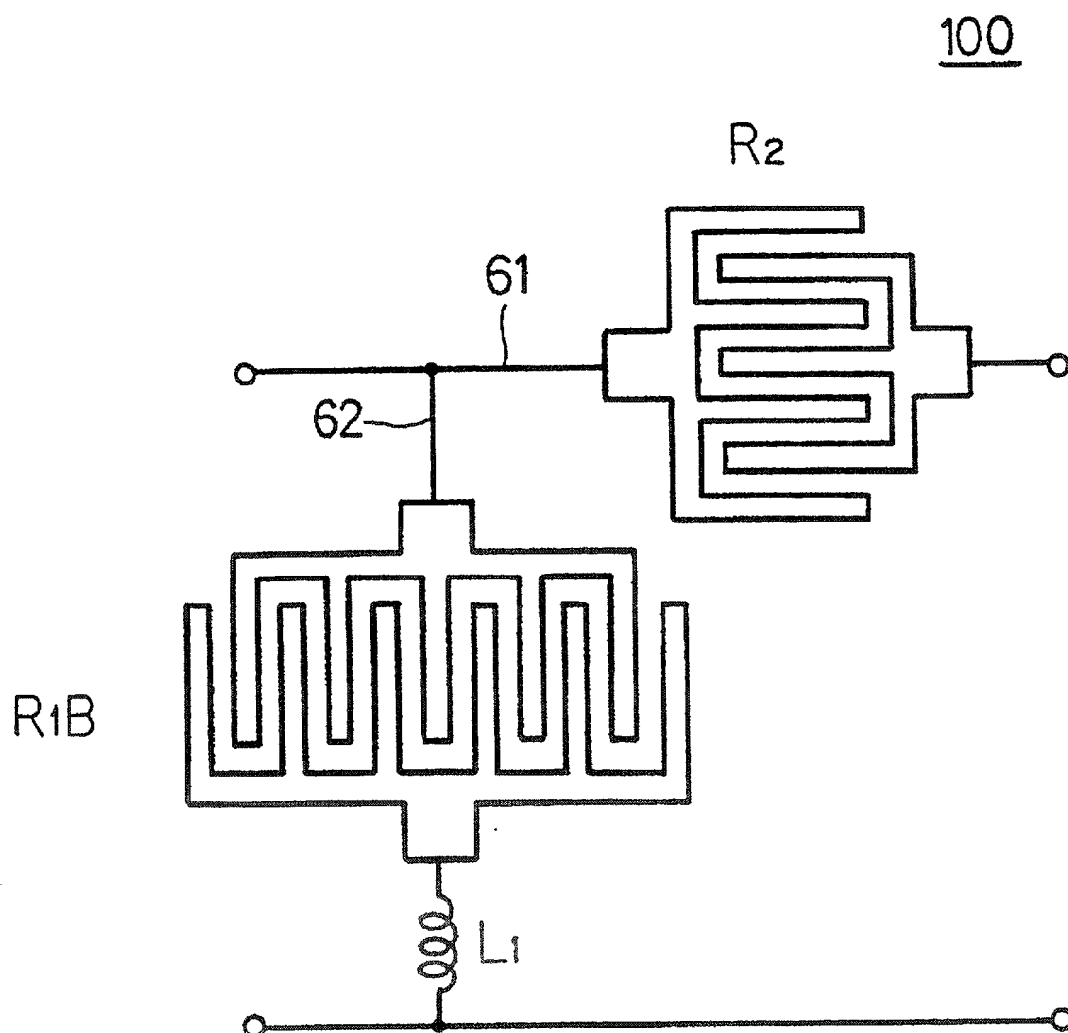


FIG. 22

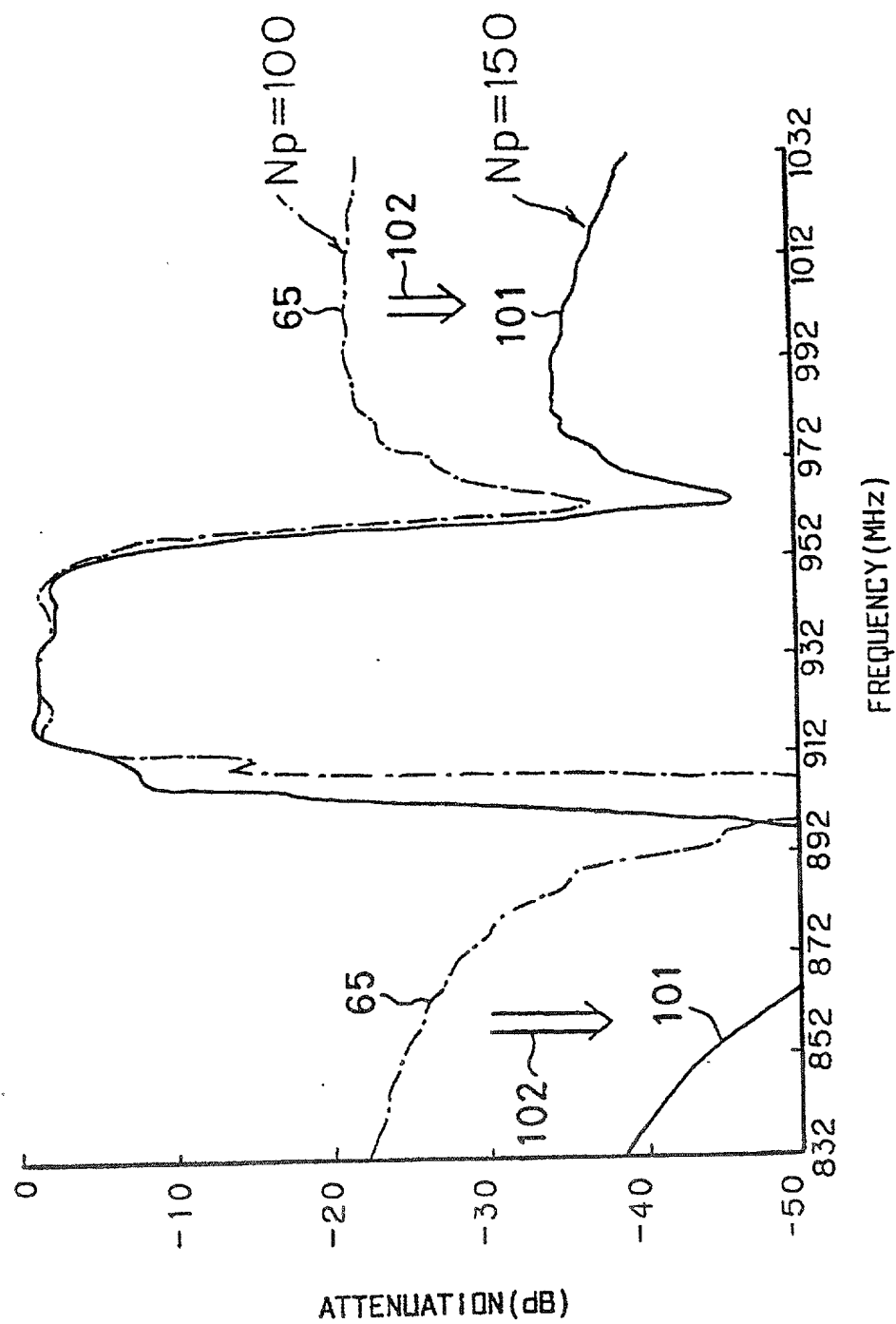


FIG. 23

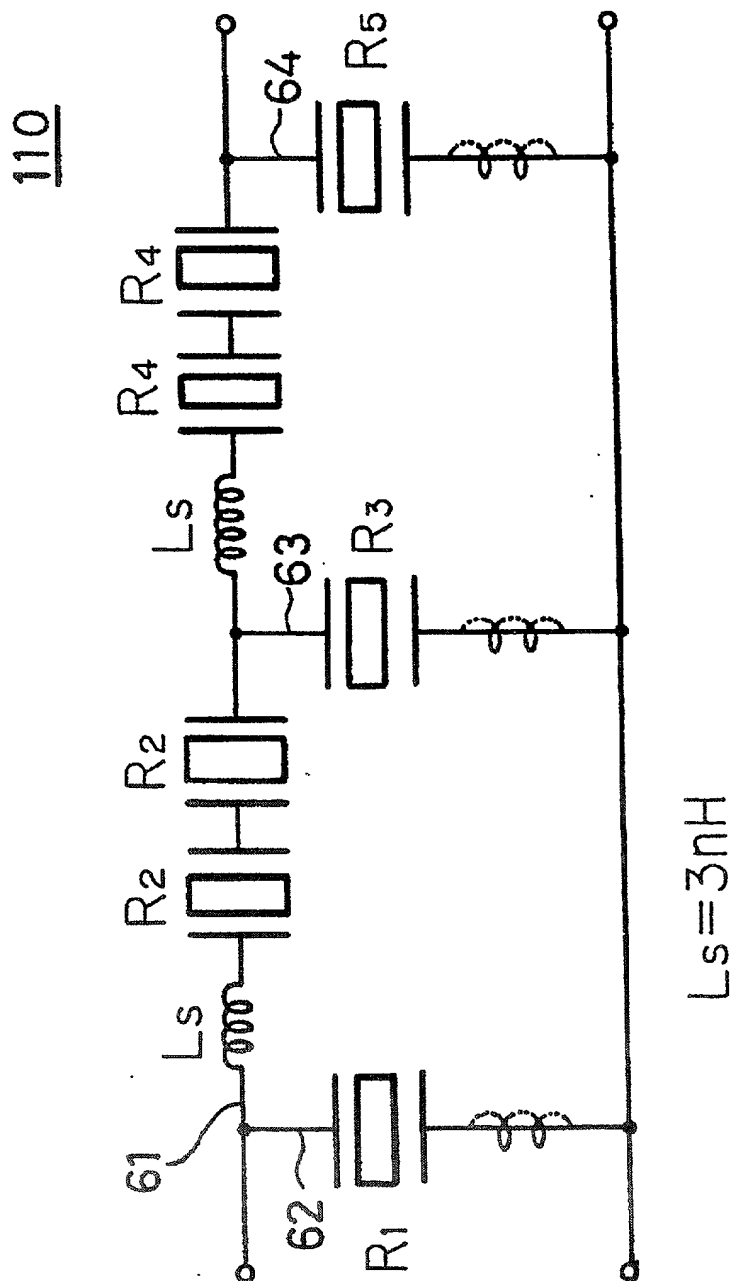


FIG. 24

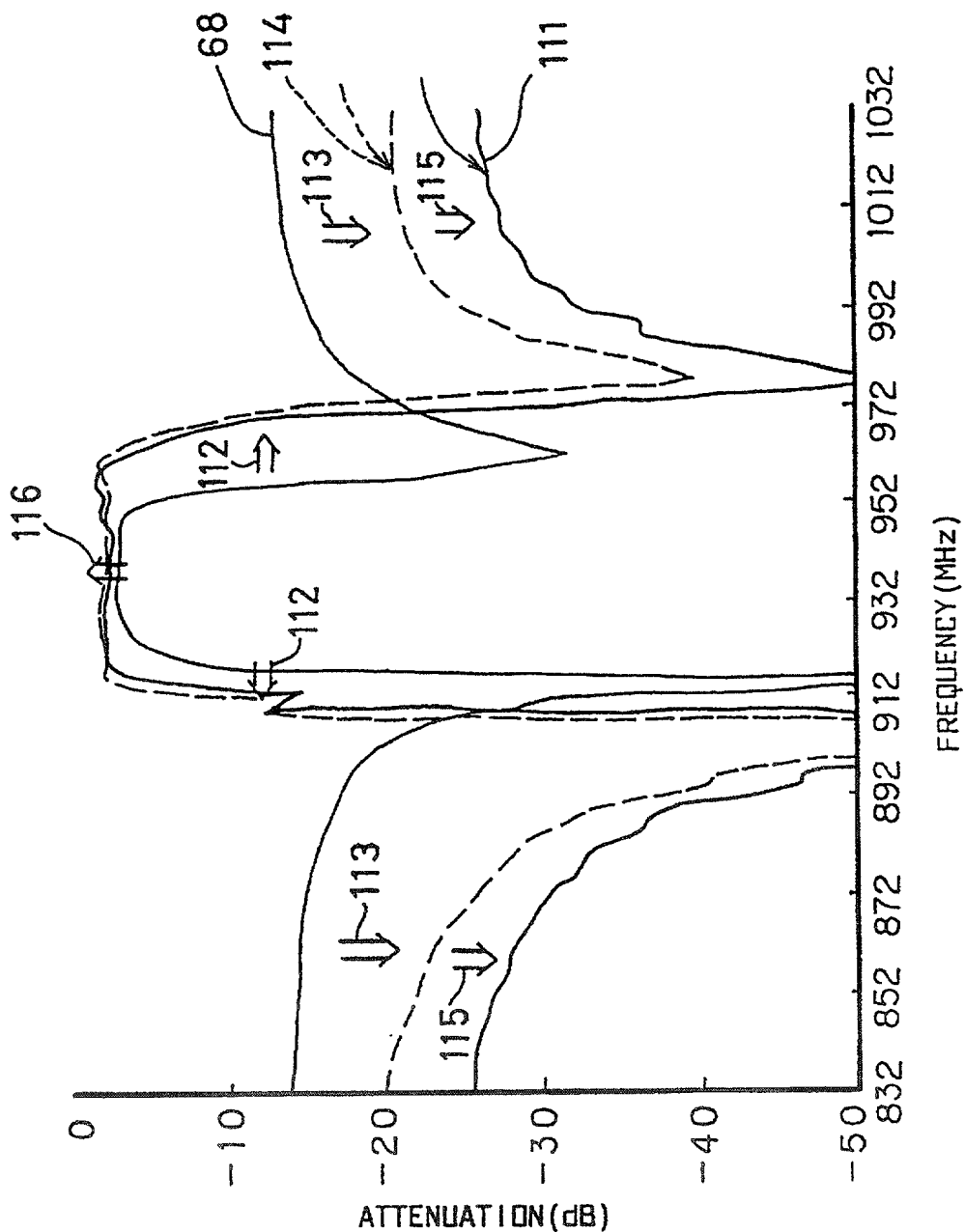
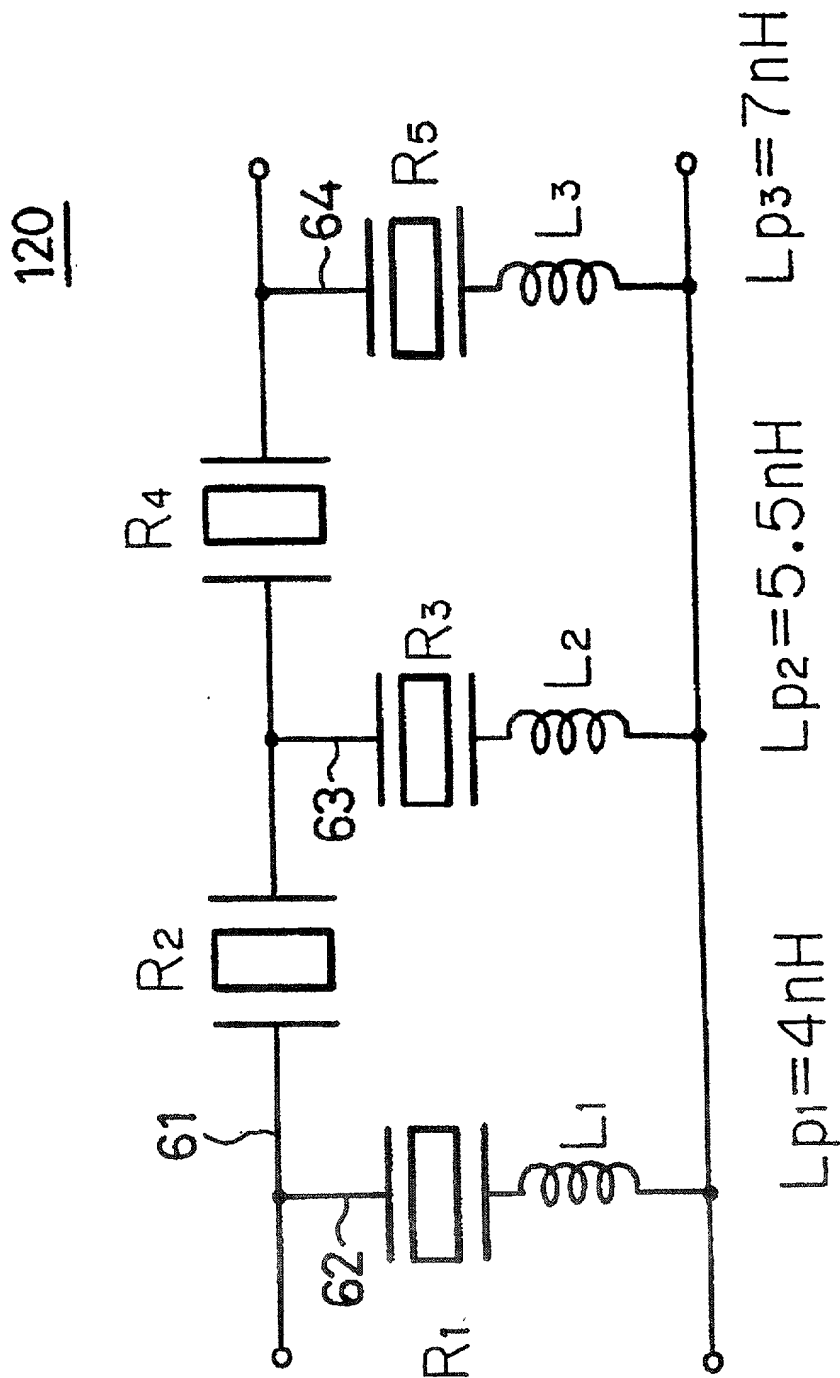


FIG. 24

FIG. 25



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FIG. 26

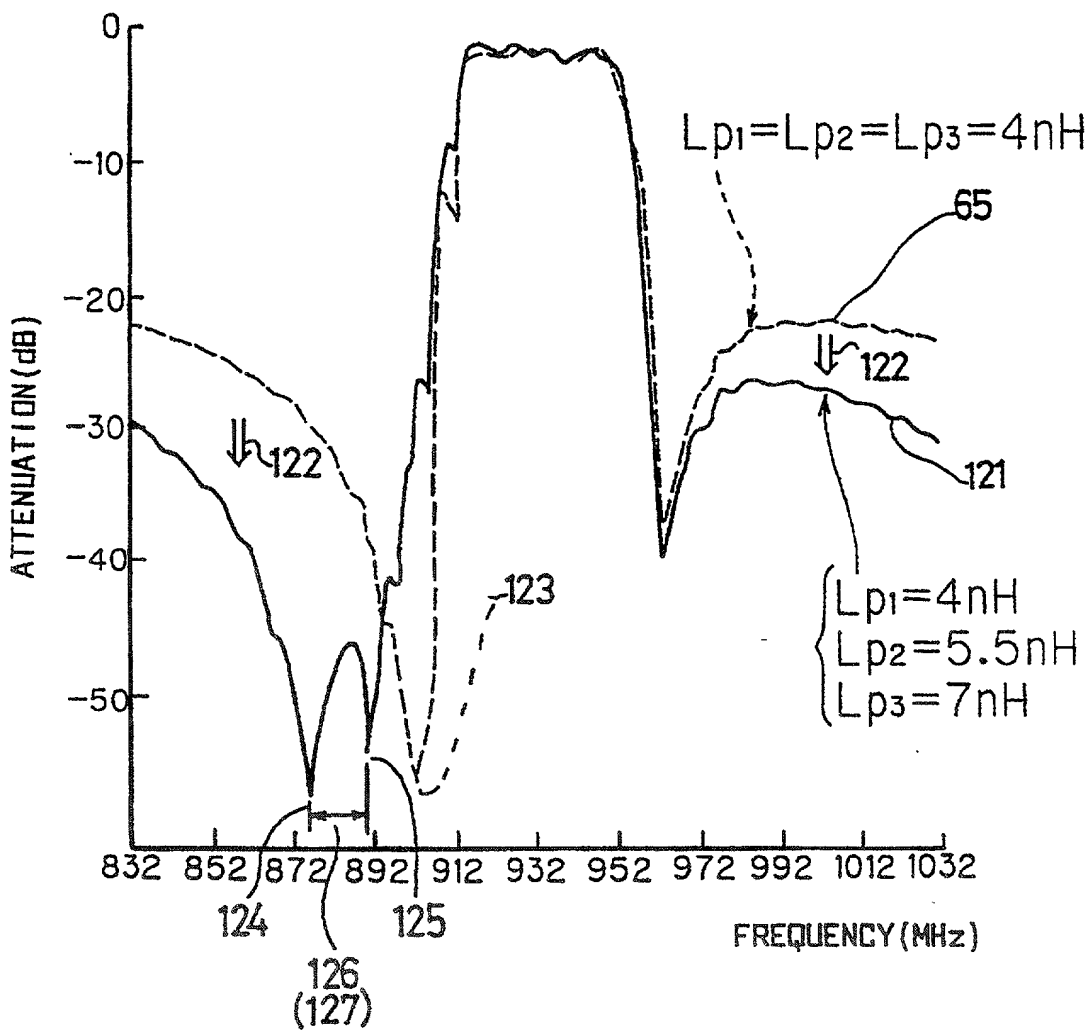




FIG. 27

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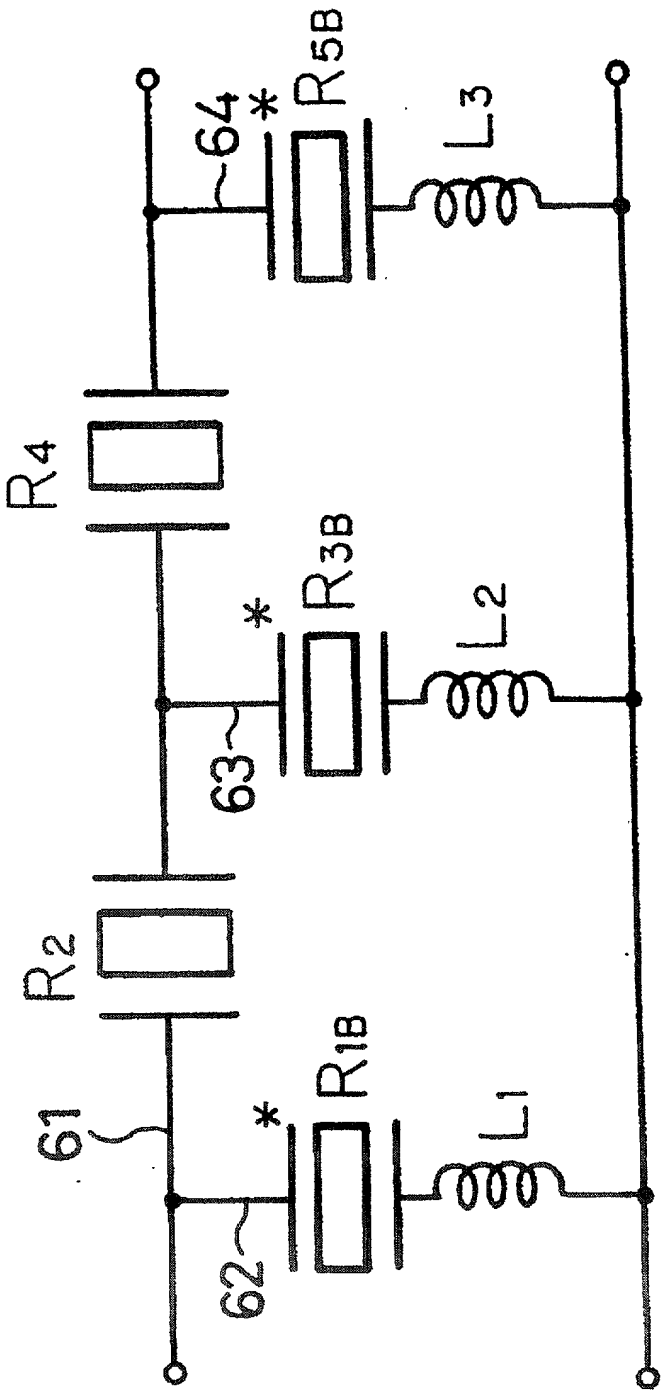


FIG. 28

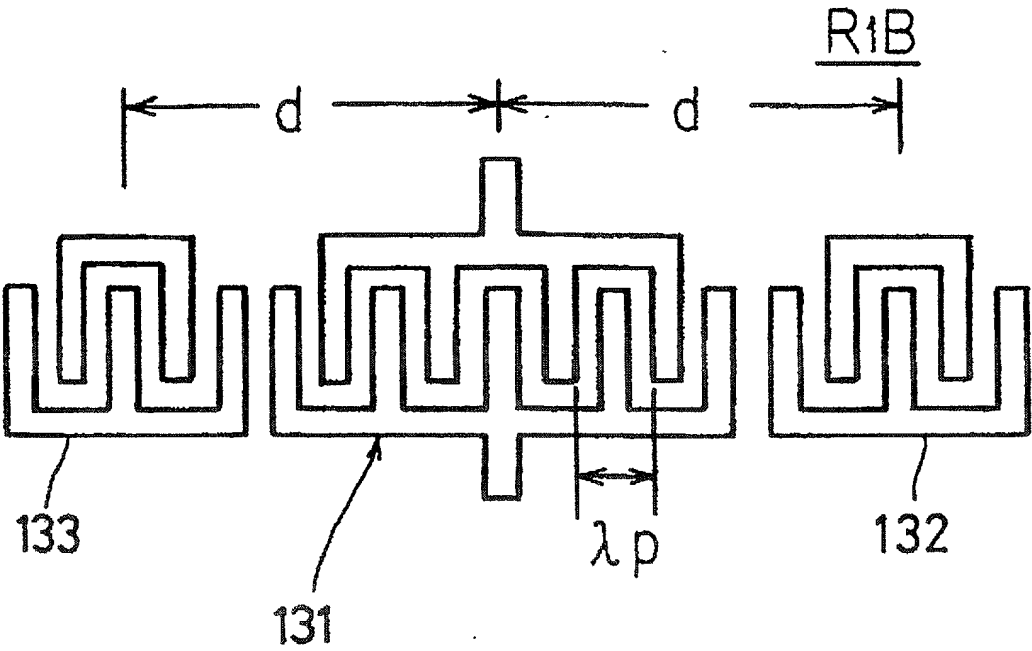


FIG. 29

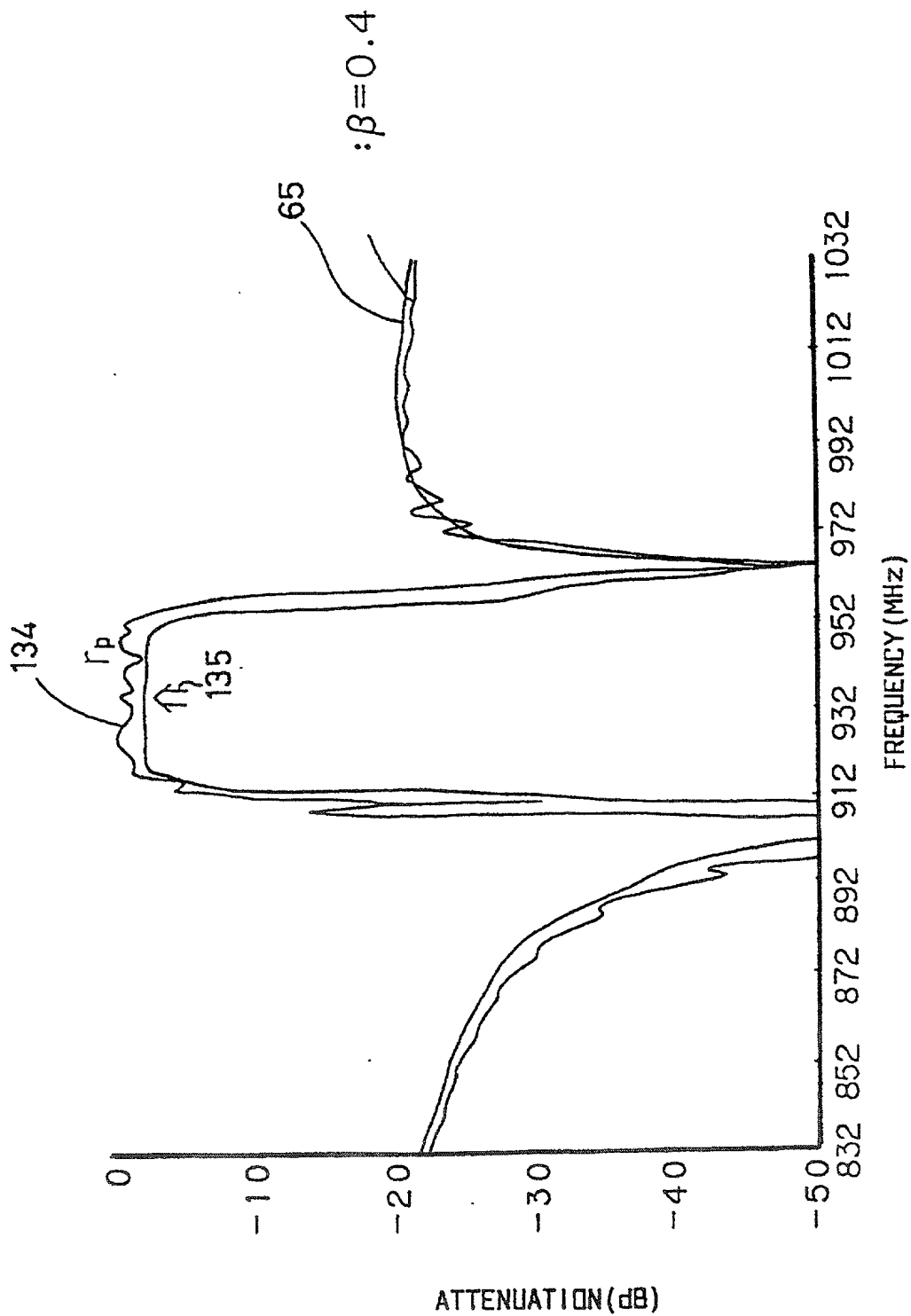


FIG. 30

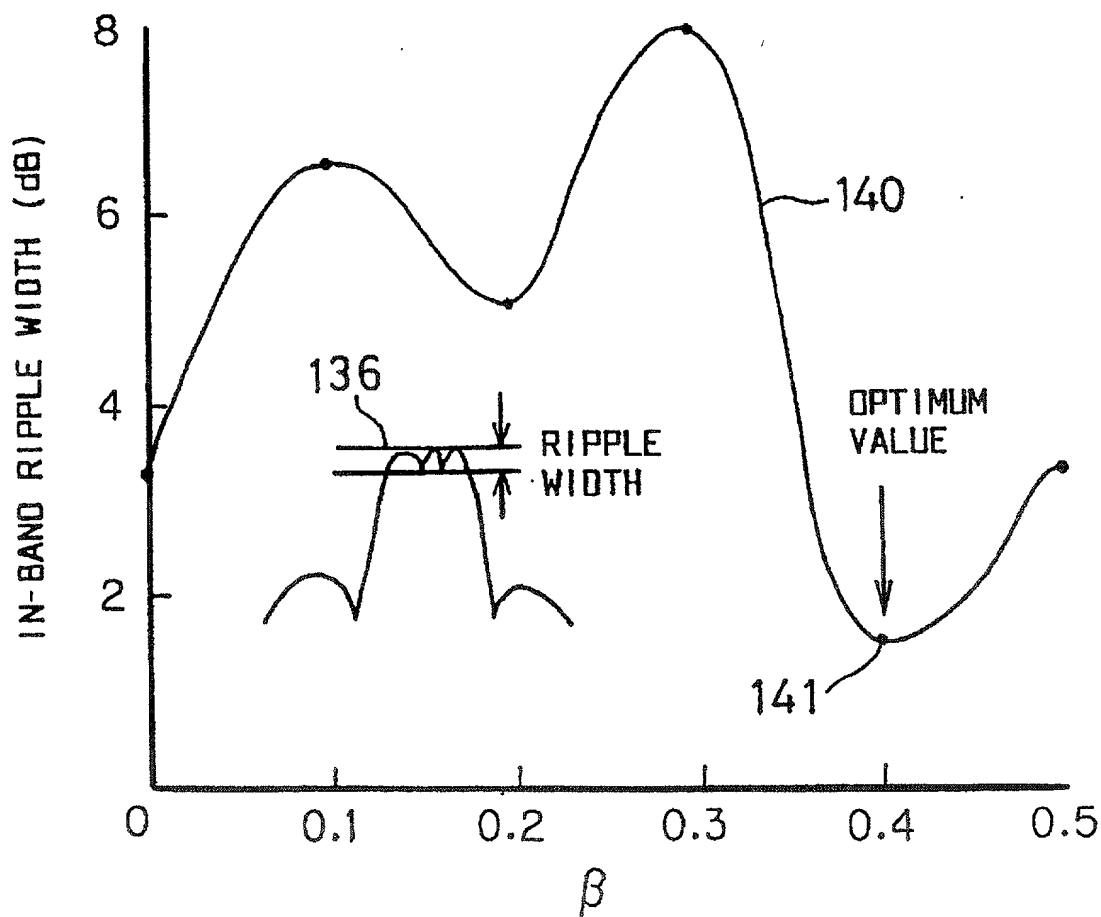




FIG. 32

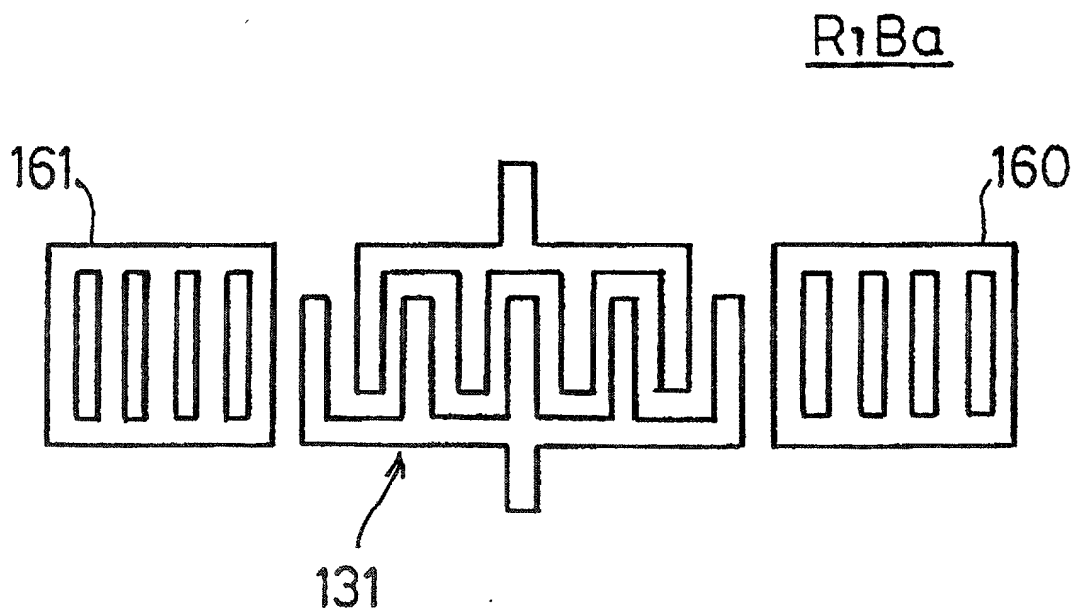


FIG. 33

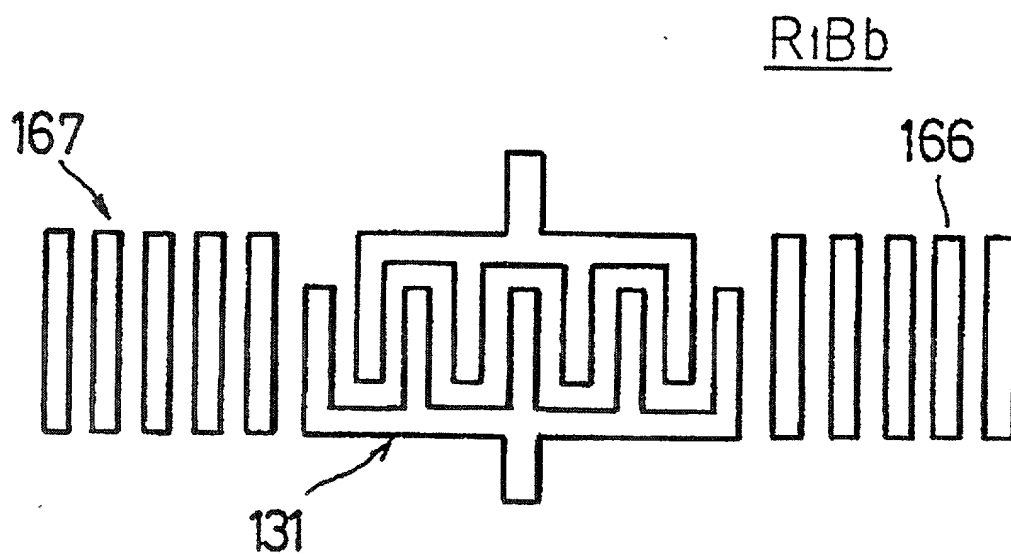


FIG. 34

170

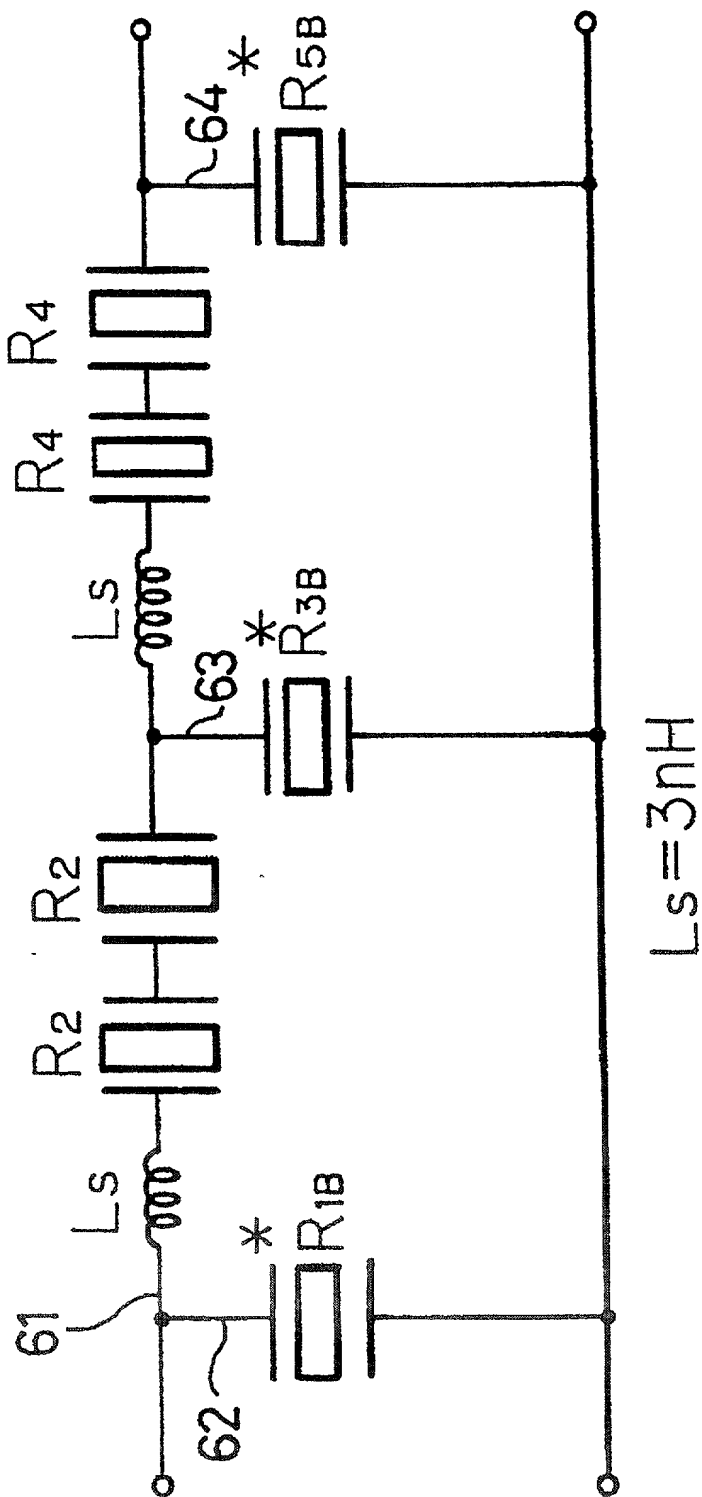




FIG. 35

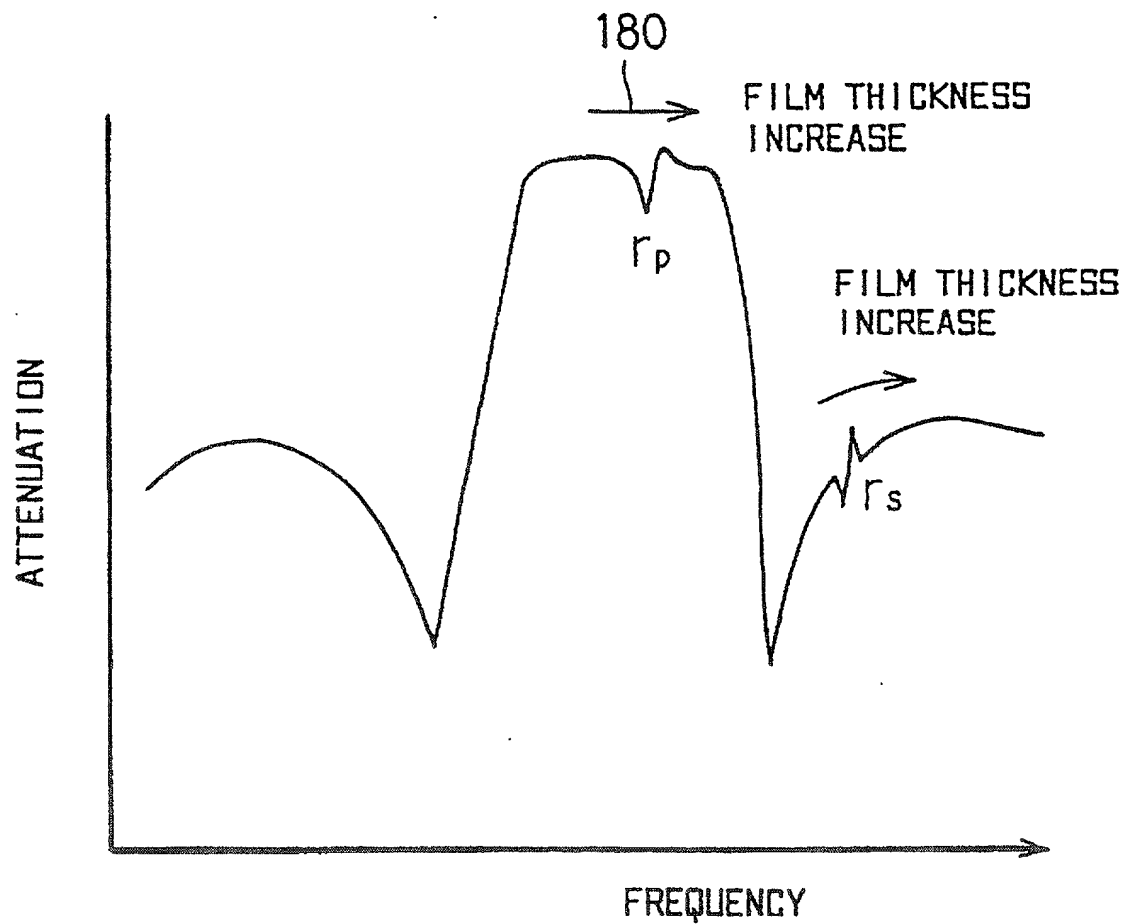


FIG. 36

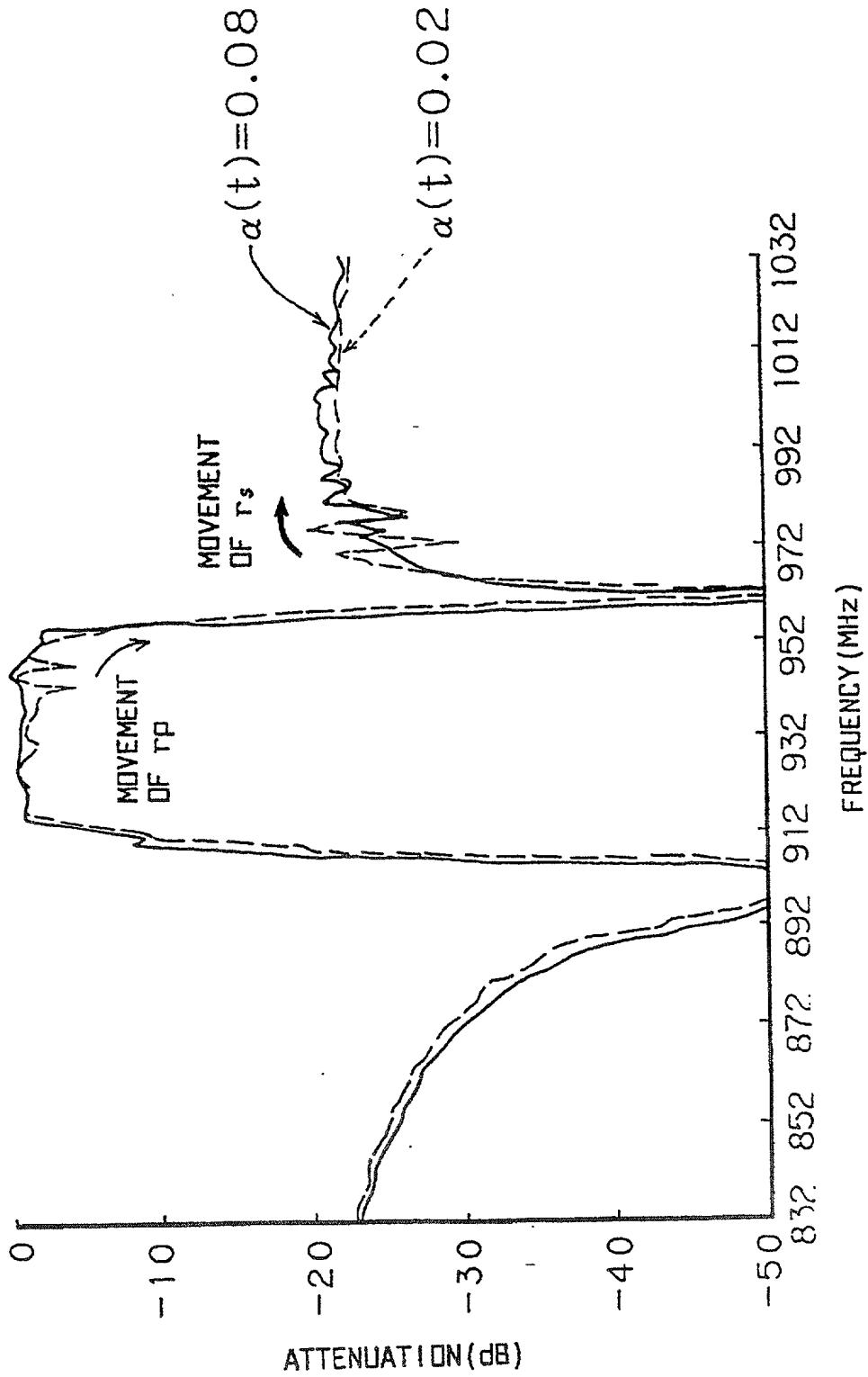


FIG. 37A

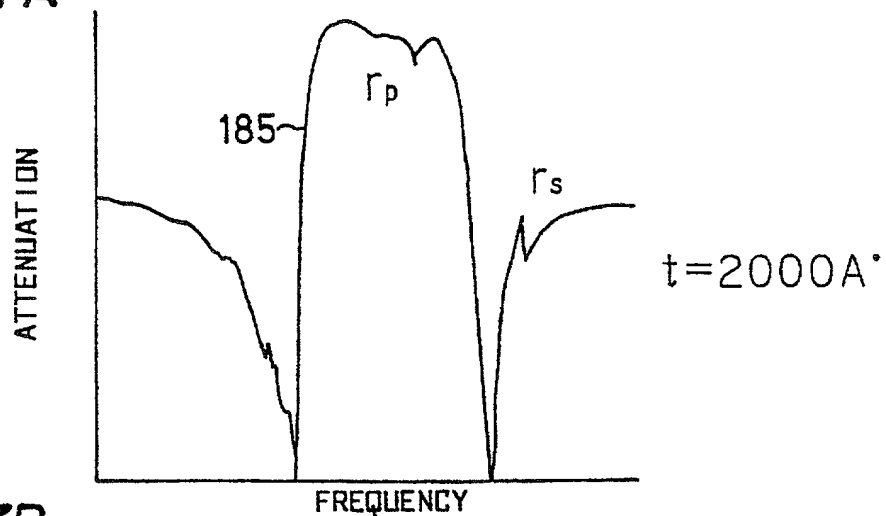


FIG. 37B

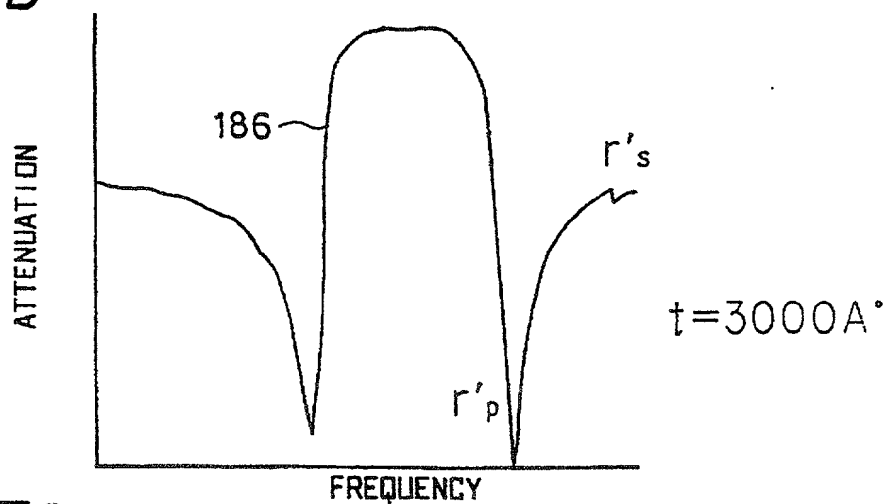


FIG. 37C

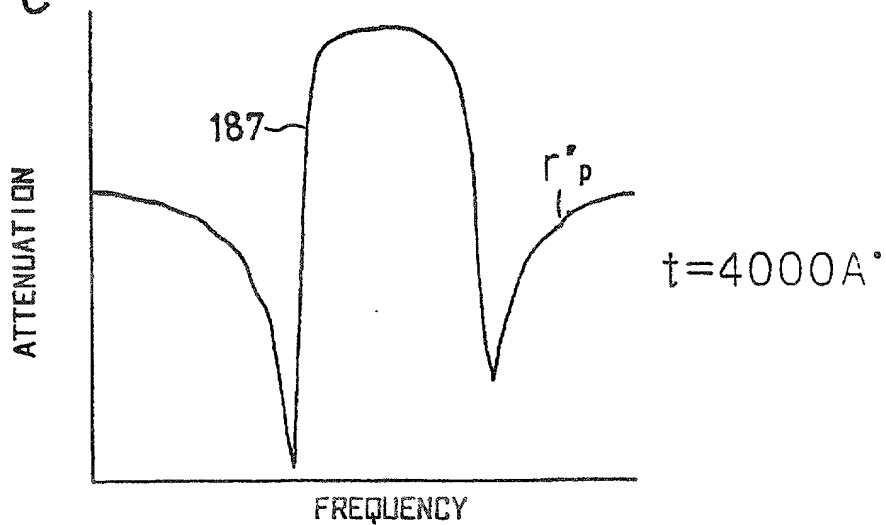


FIG. 38A

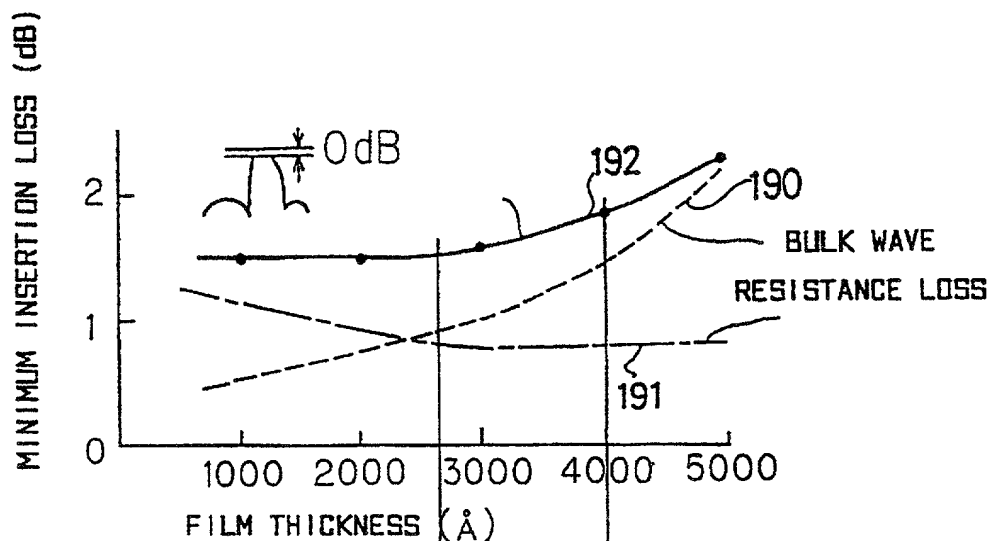


FIG. 38B

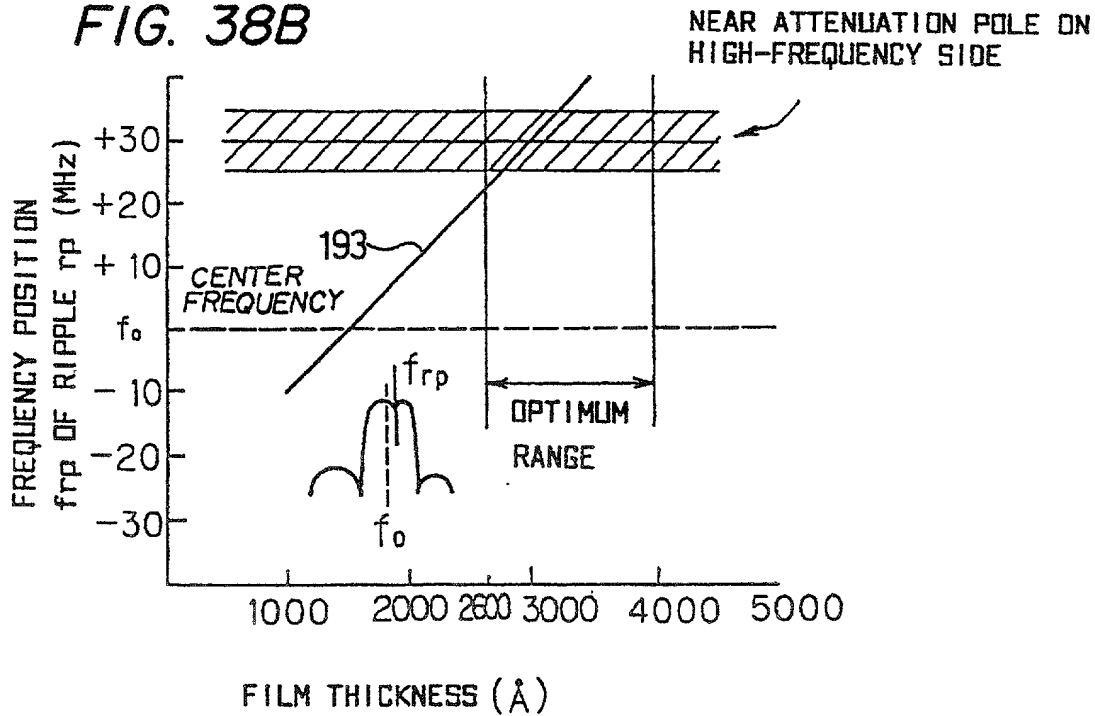


FIG. 39

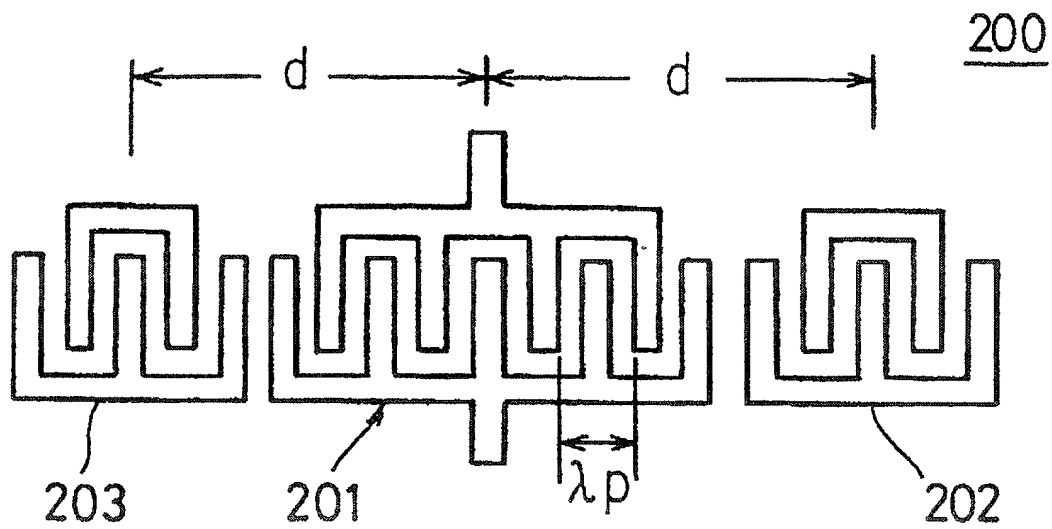


FIG. 40

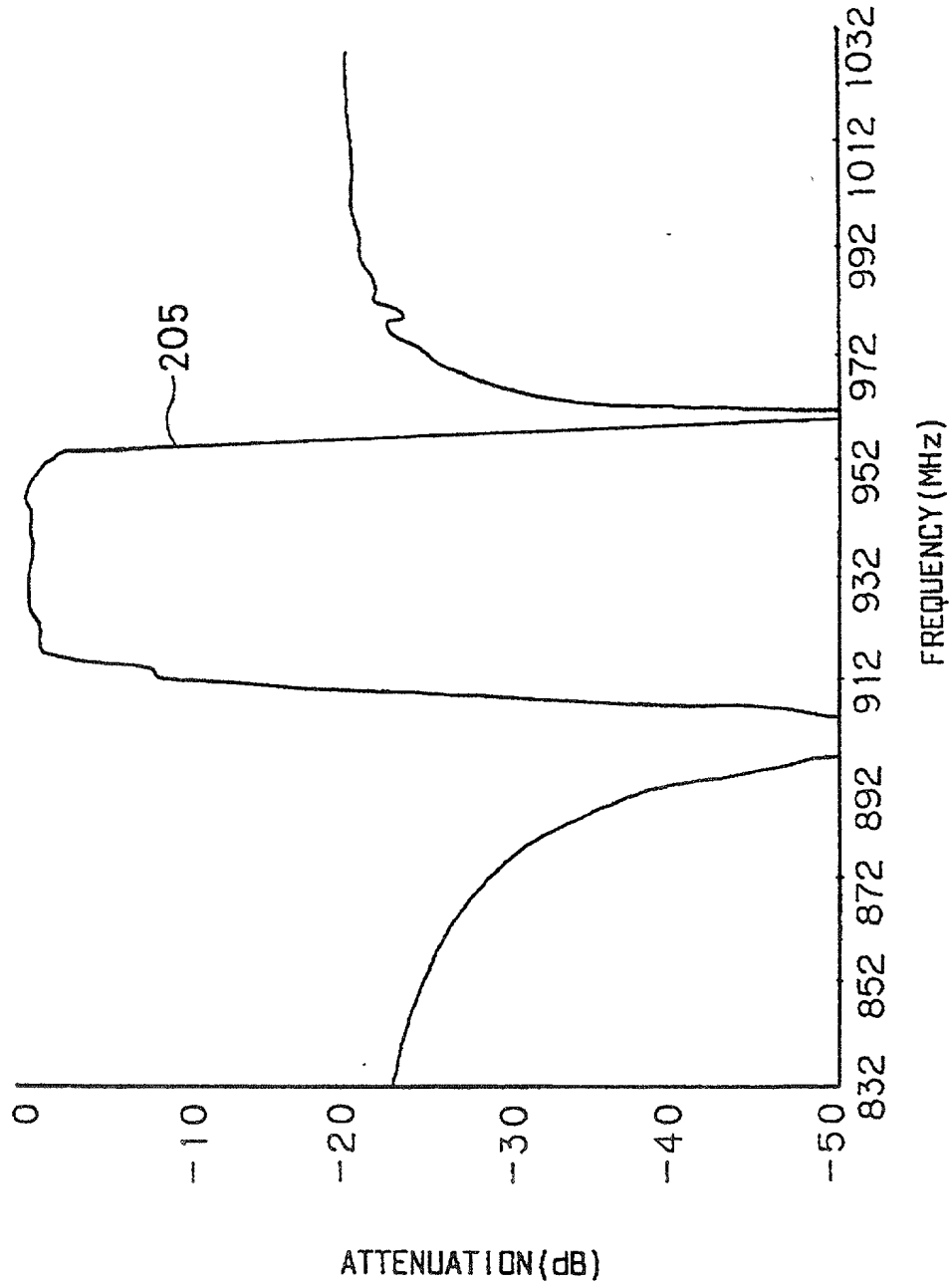


FIG. 41

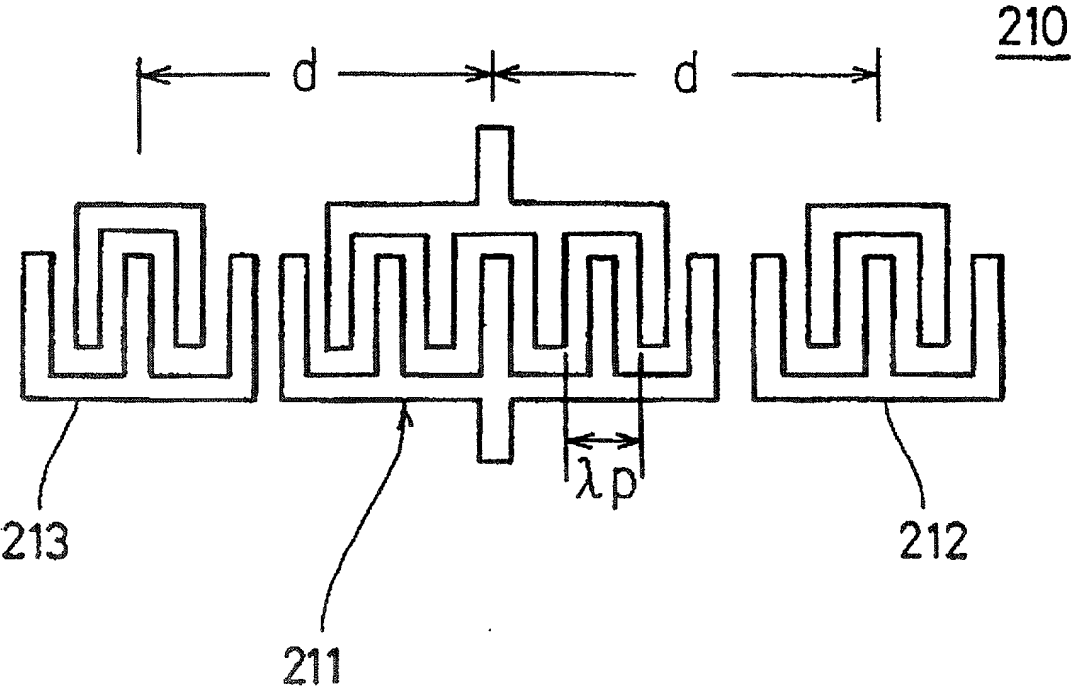


FIG. 42

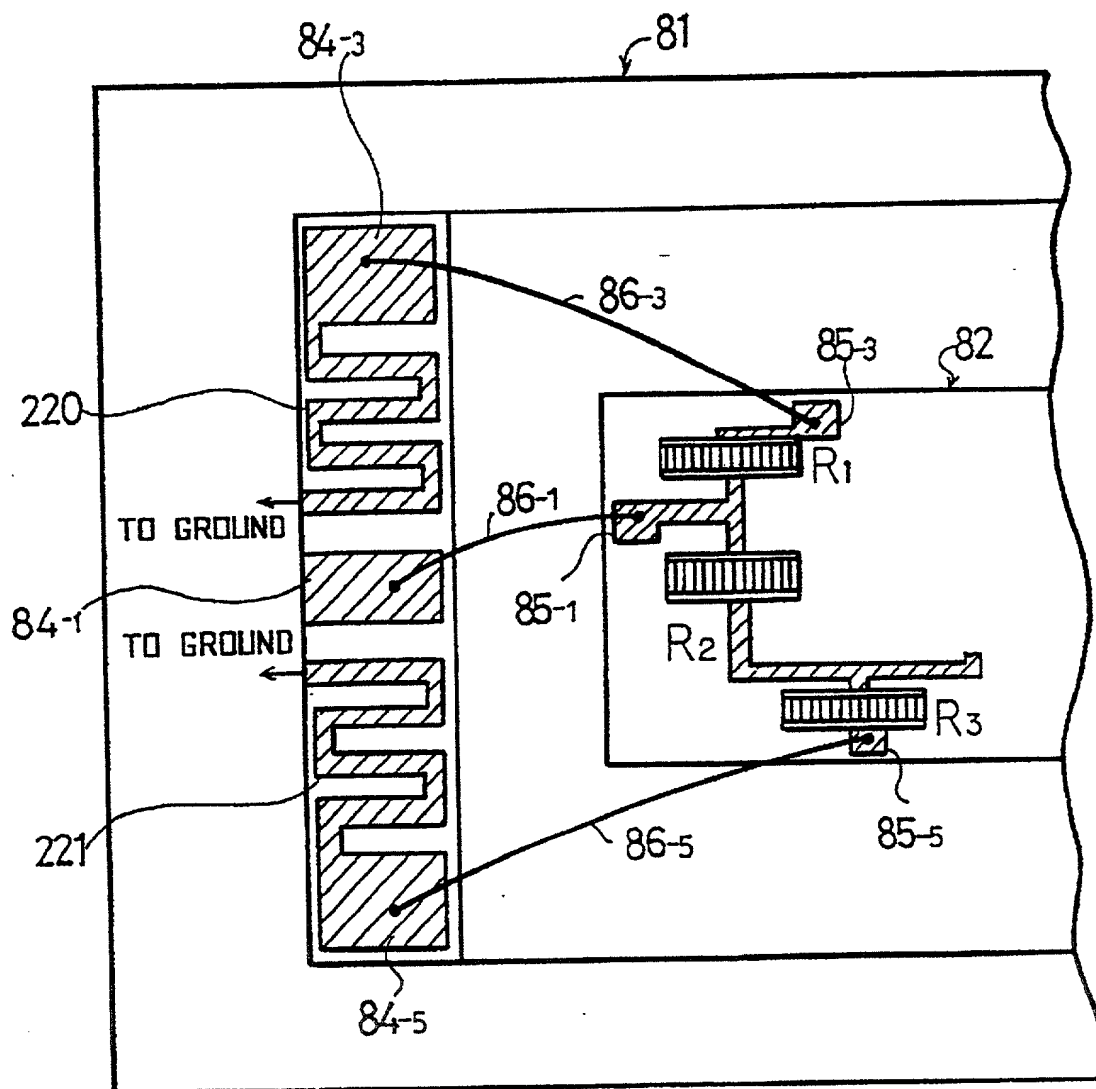




FIG. 43

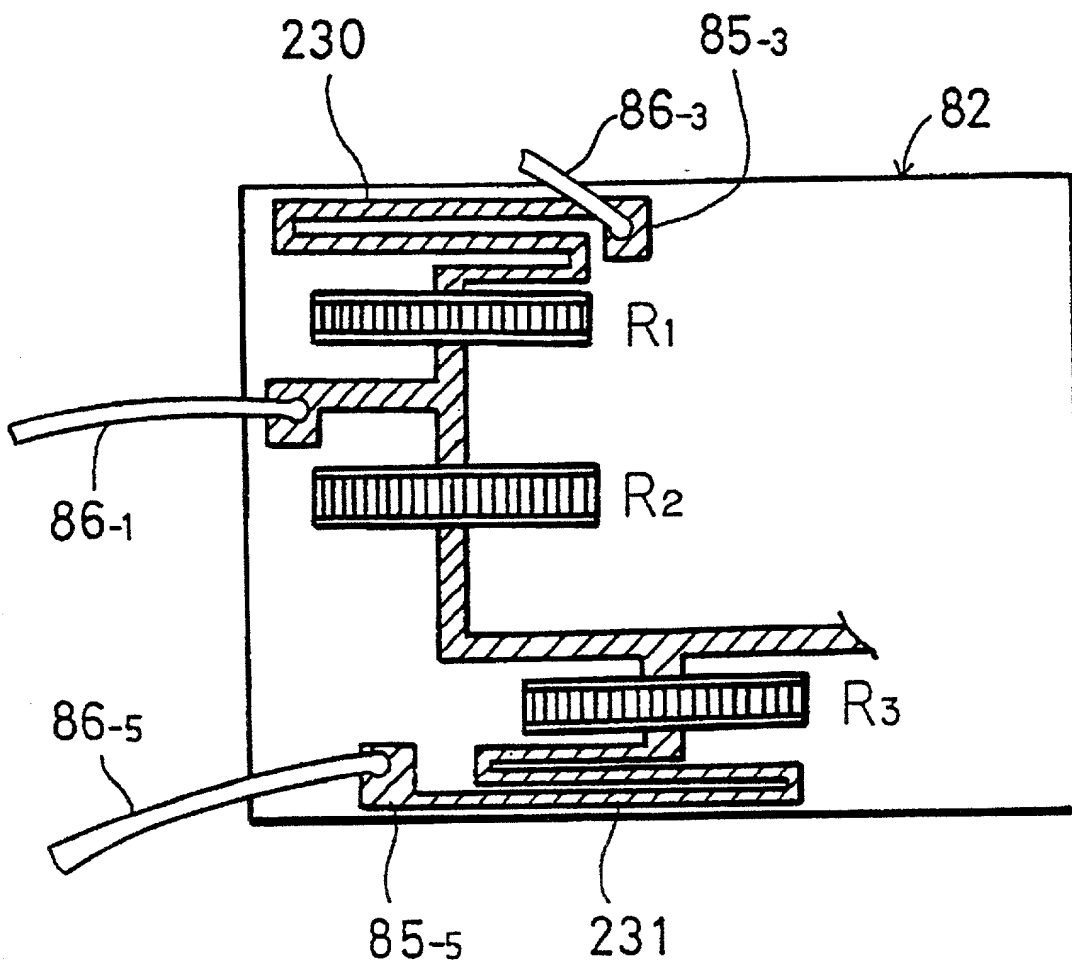


FIG. 43

FIG. 44

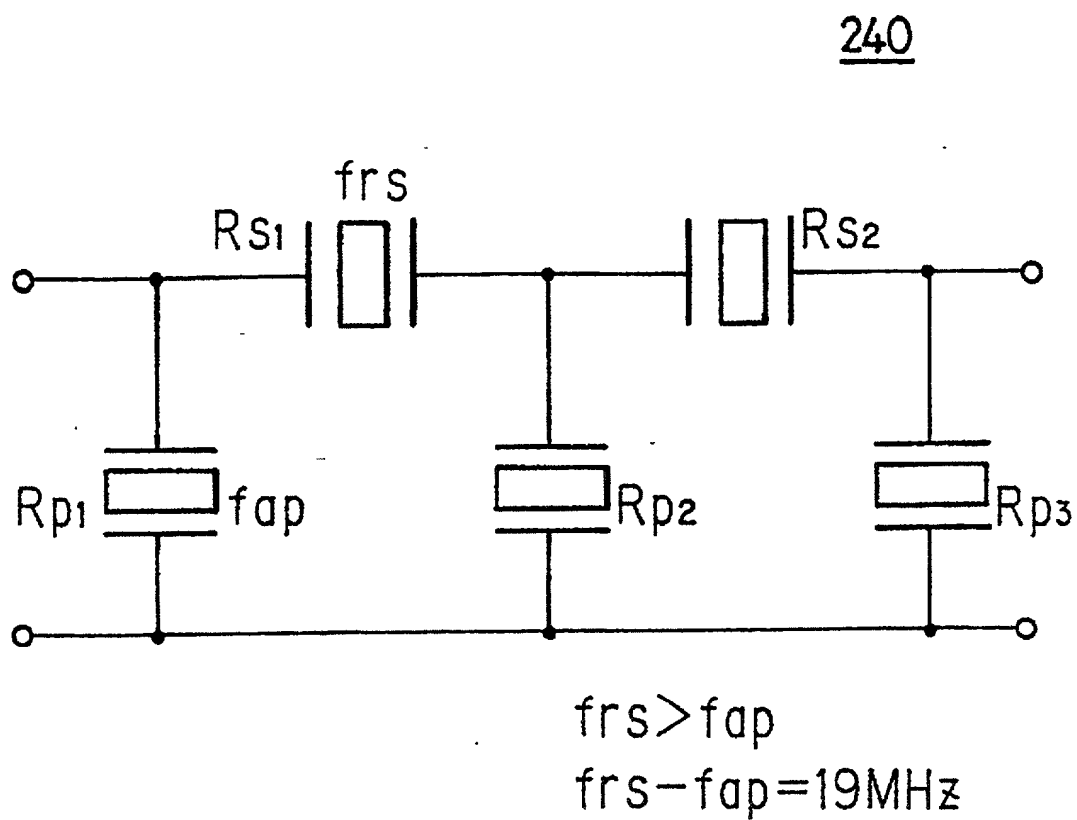


FIG. 45

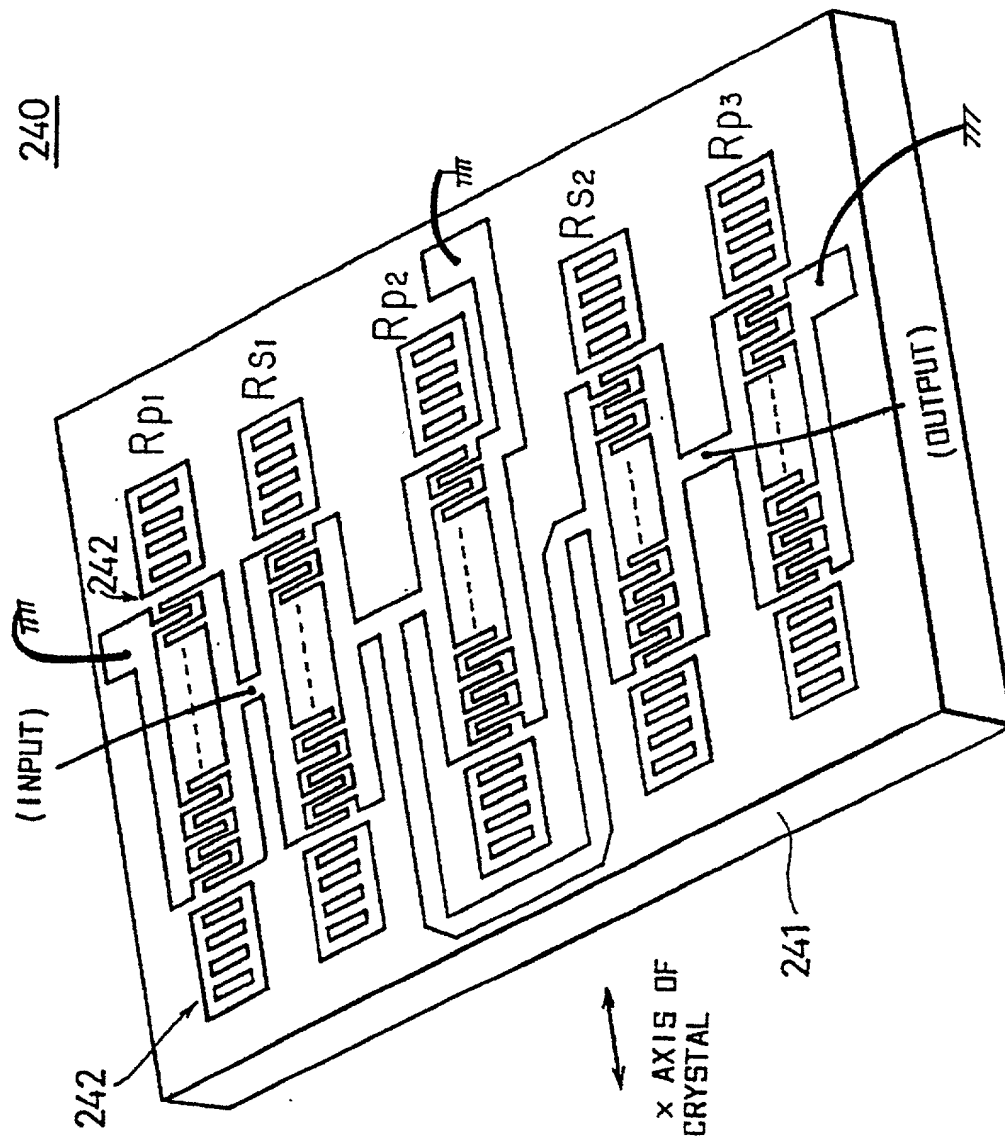


FIG. 46A

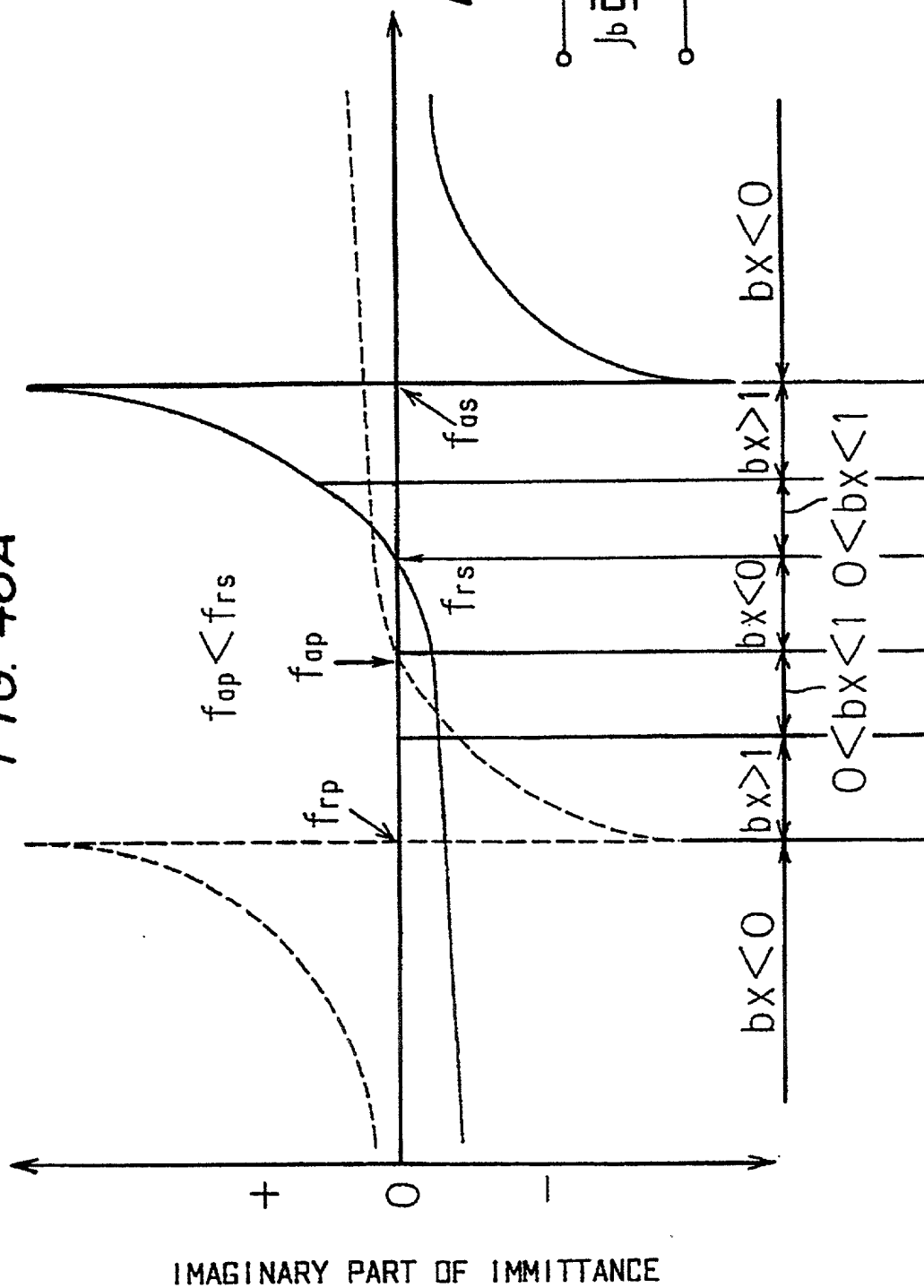


FIG. 46B

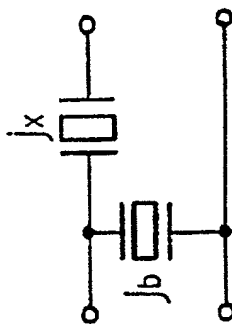


FIG. 47A

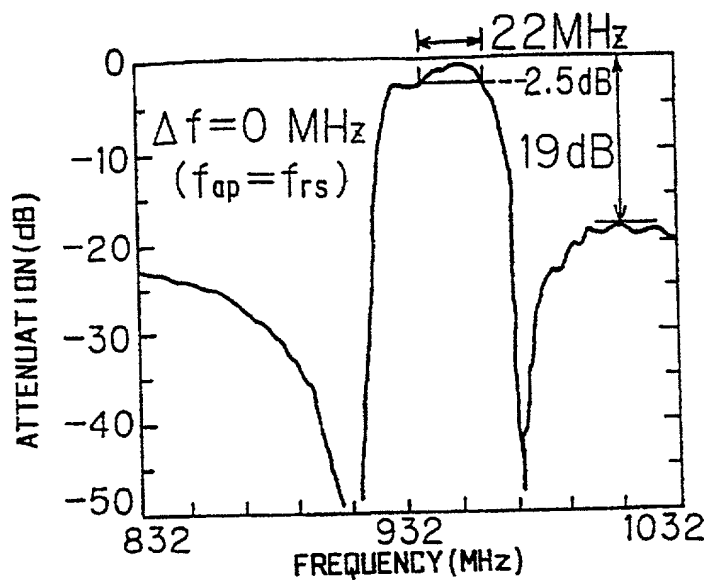


FIG. 47B

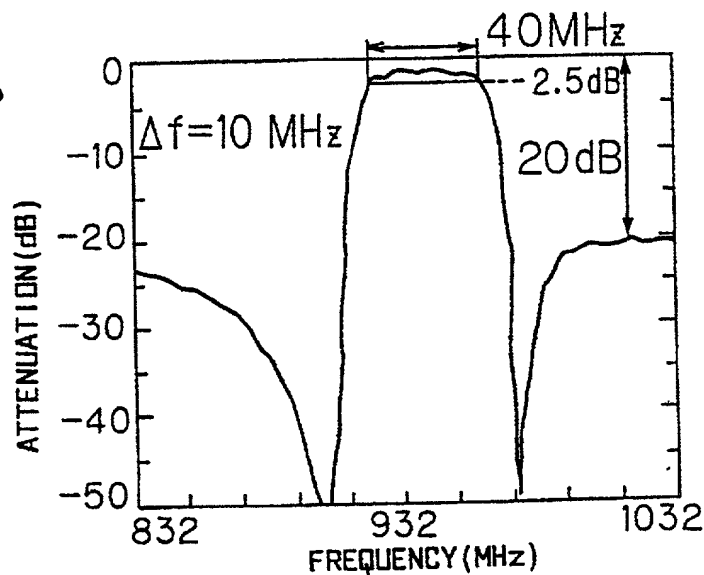
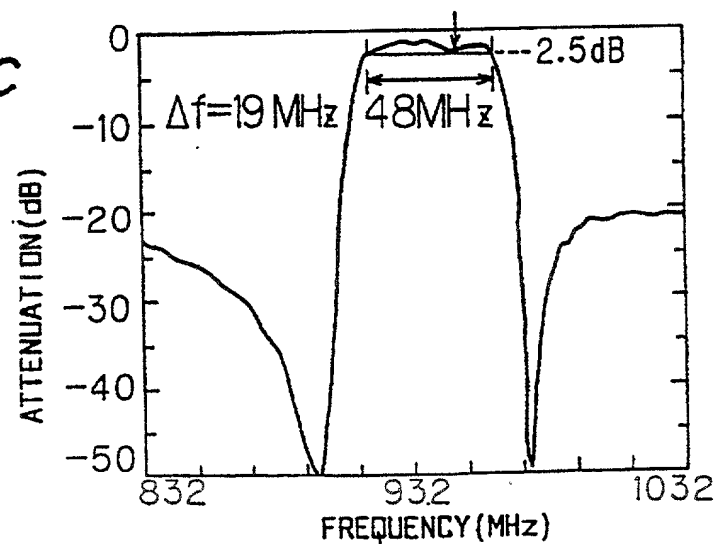
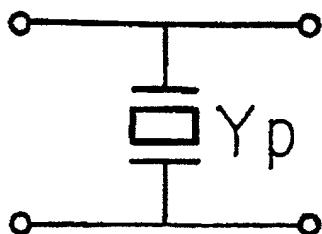


FIG. 47C



*FIG. 48A*

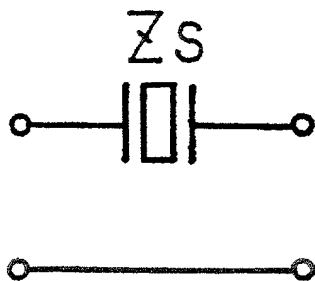
ATTENUATION



$$Y_p = \frac{1}{25} \left( \frac{1 - S_{21}}{S_{21}} \right) (S)$$

*FIG. 48B*

IMPEDANCE



$$Z_s = 100 \left( \frac{1 - S_{21}}{S_{21}} \right) (\Omega)$$

FIG. 49

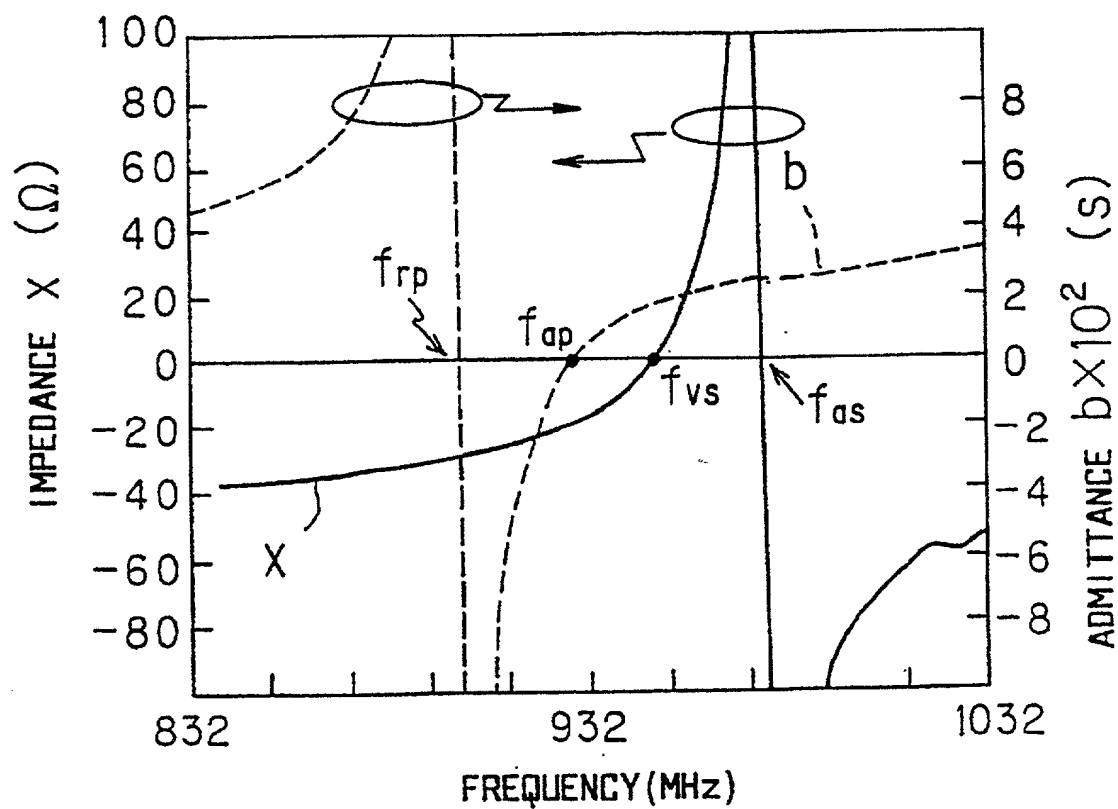


FIG. 50

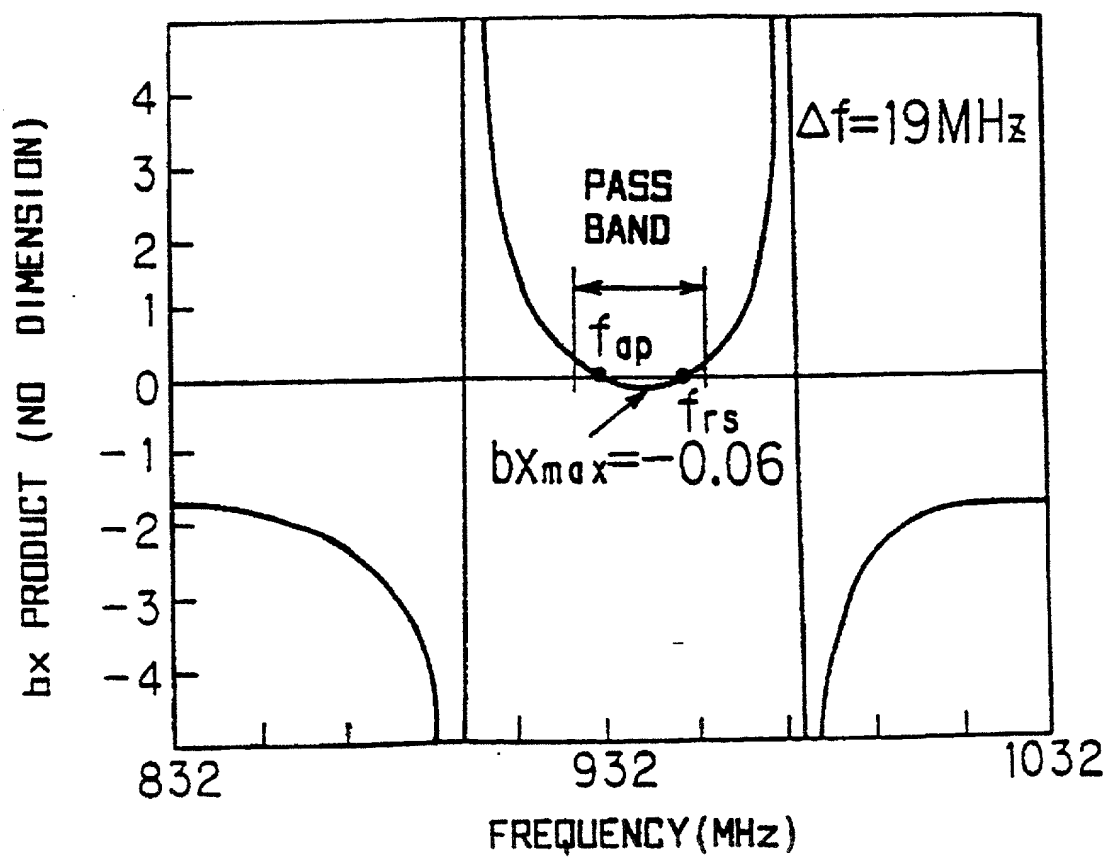




FIG. 51

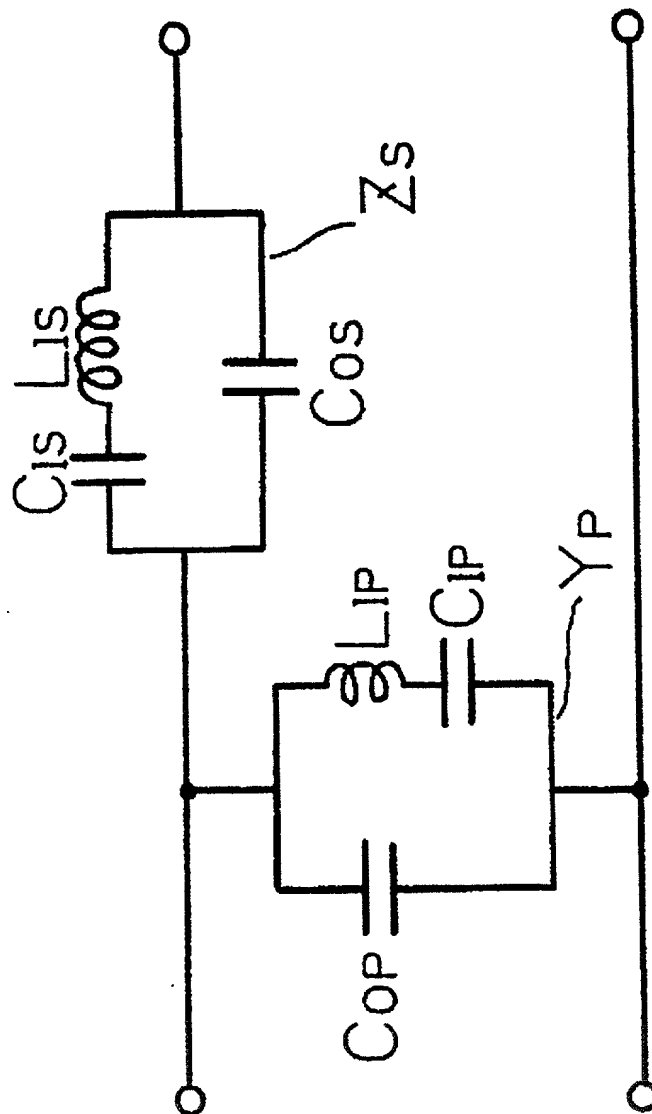
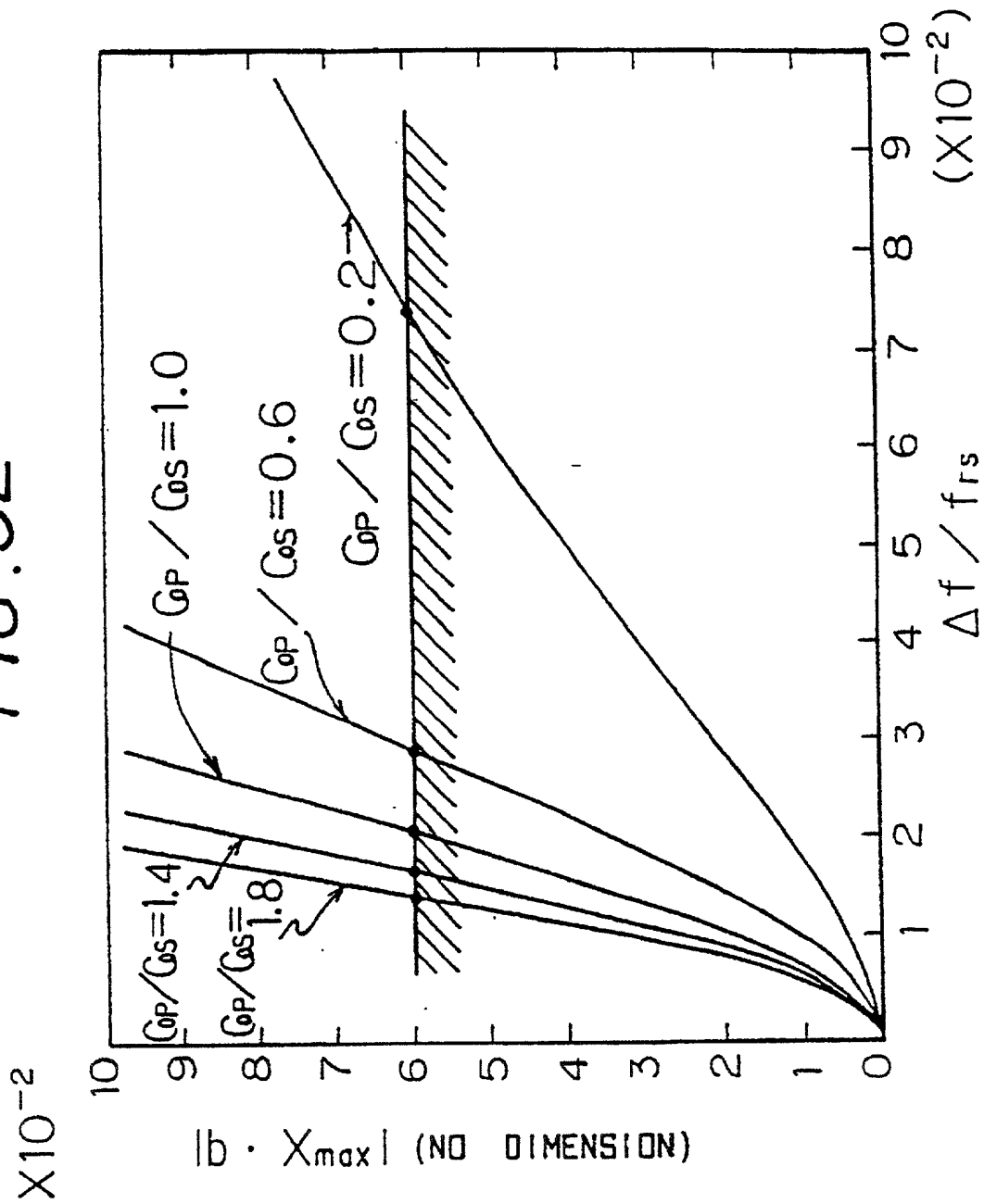


FIG. 52



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FIG. 53

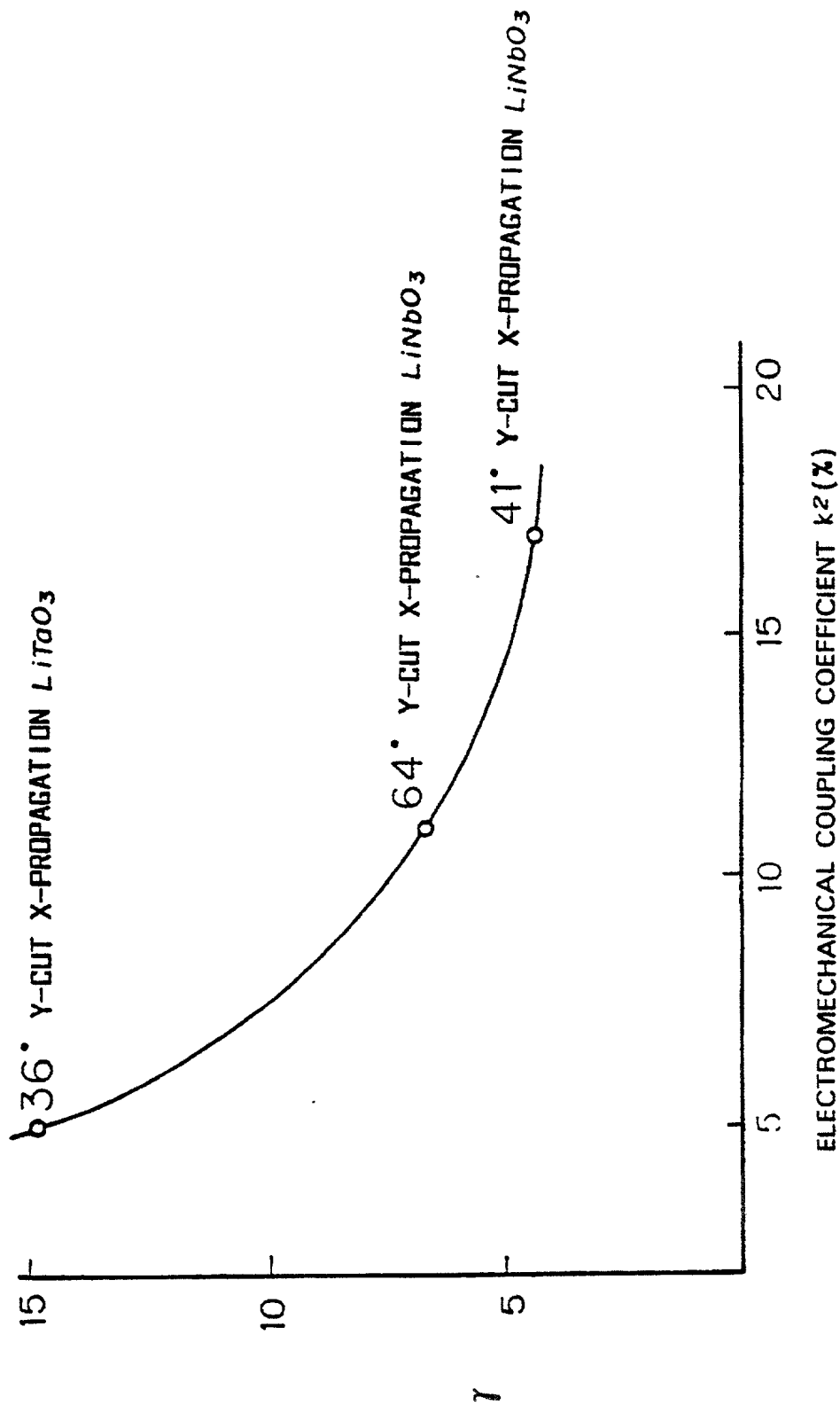


FIG. 54

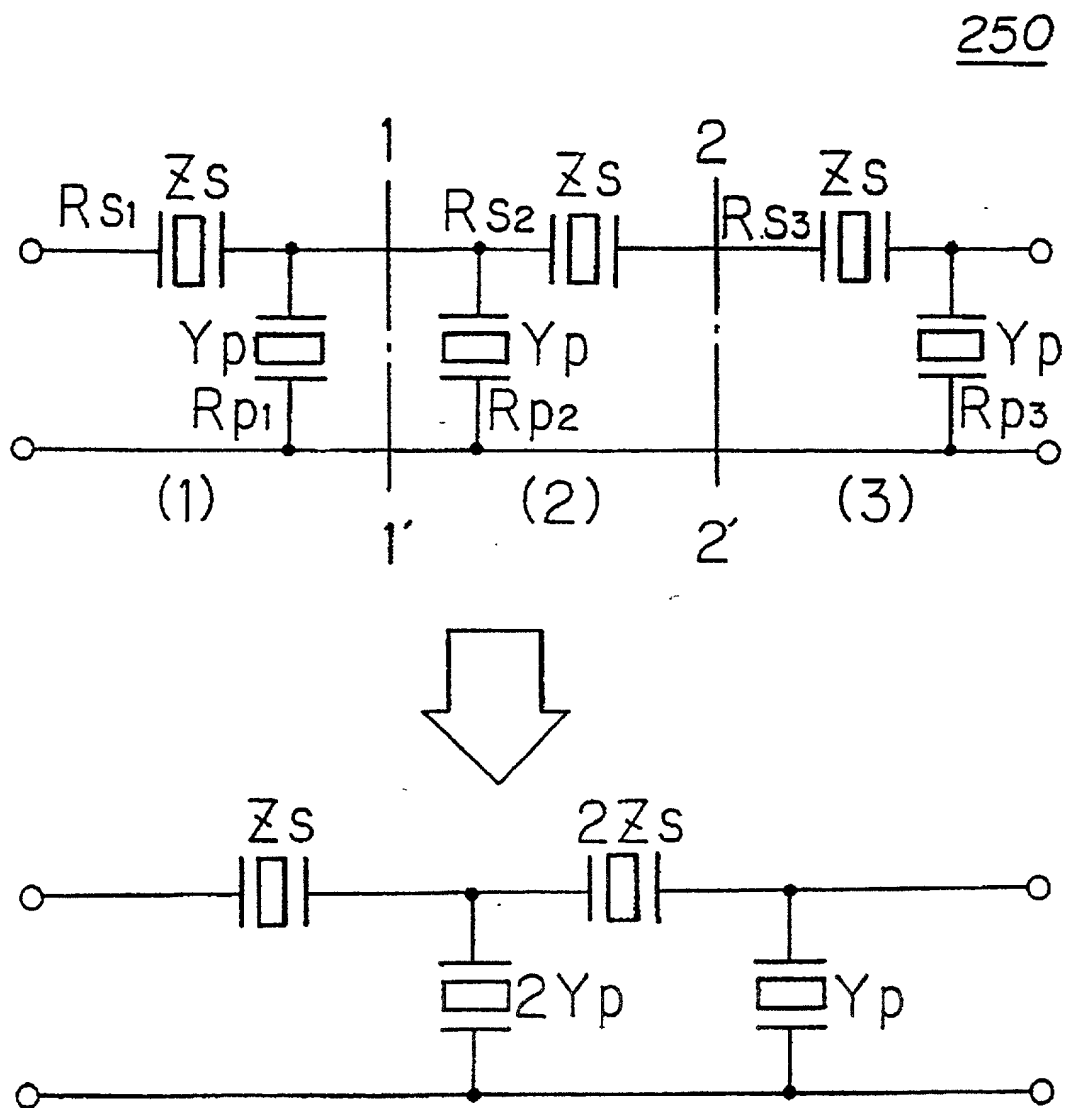
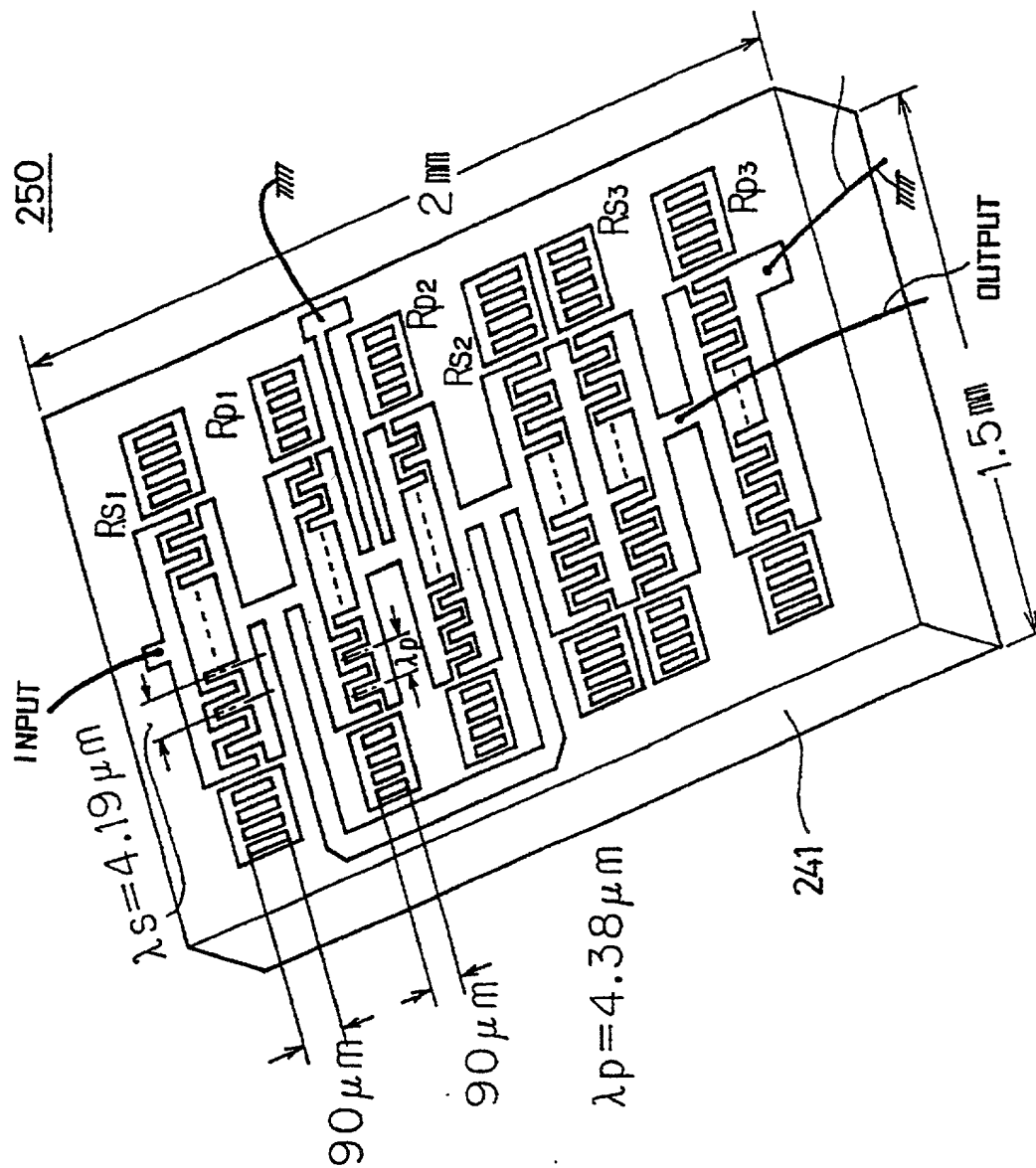


FIG. 55



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FIG. 56

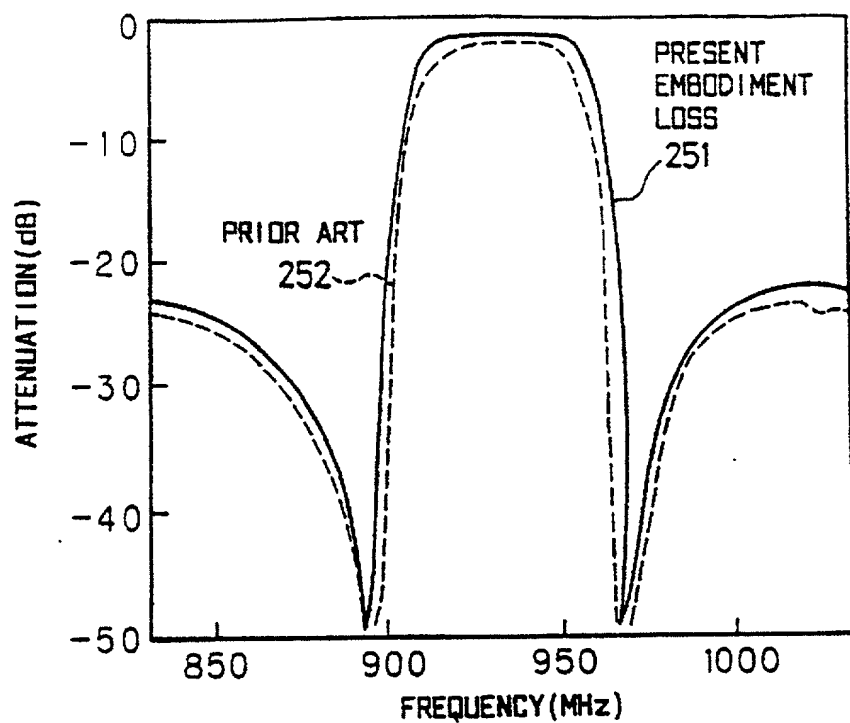


FIG. 57

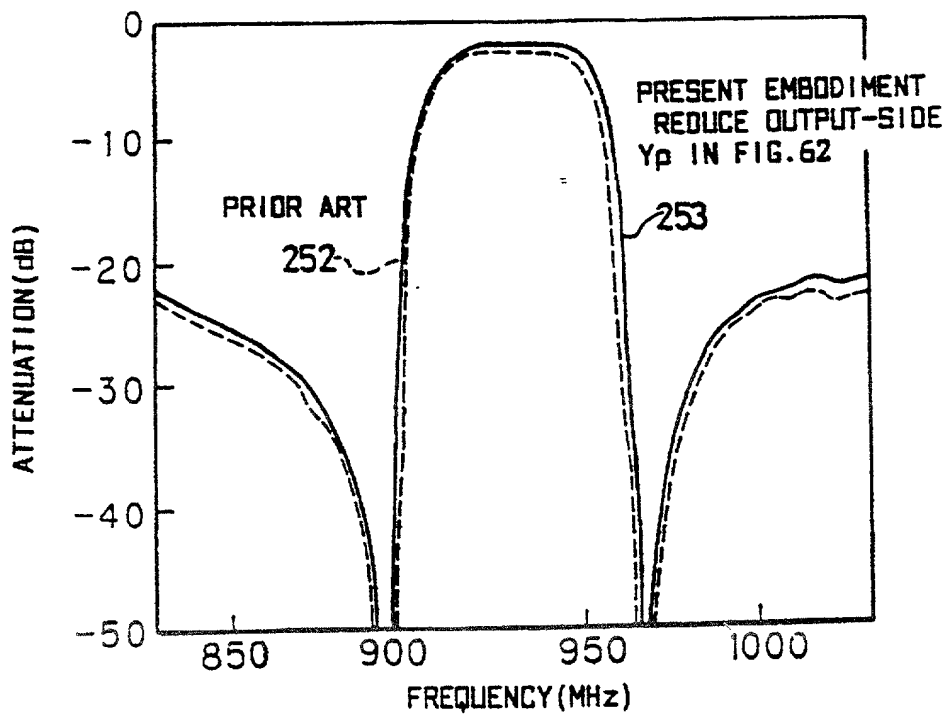


FIG. 58A

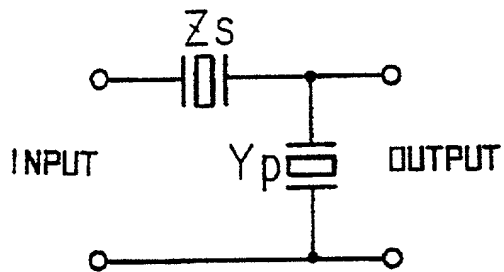


FIG. 58B

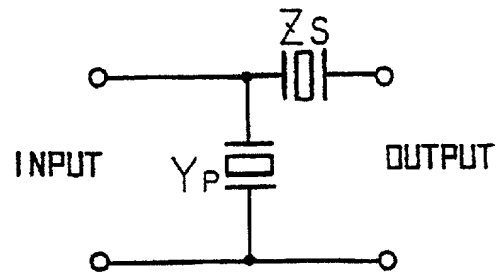


FIG. 60

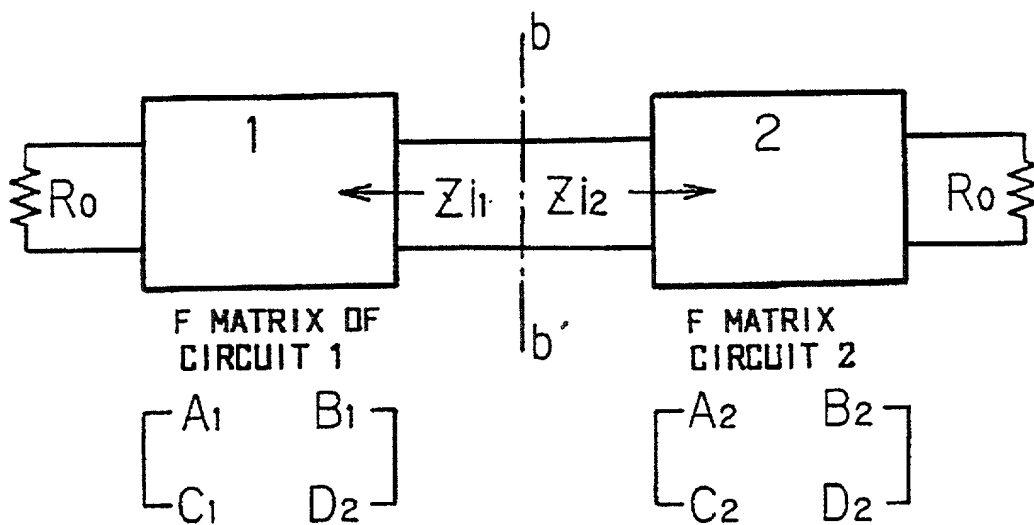


FIG. 59A

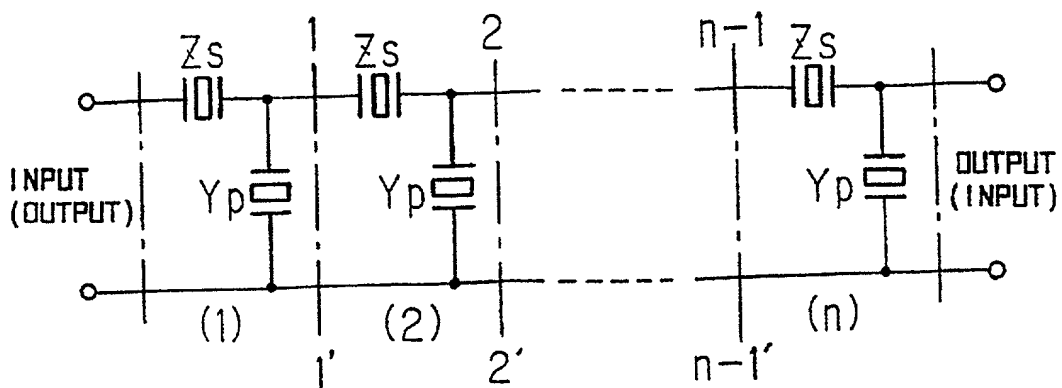


FIG. 59B

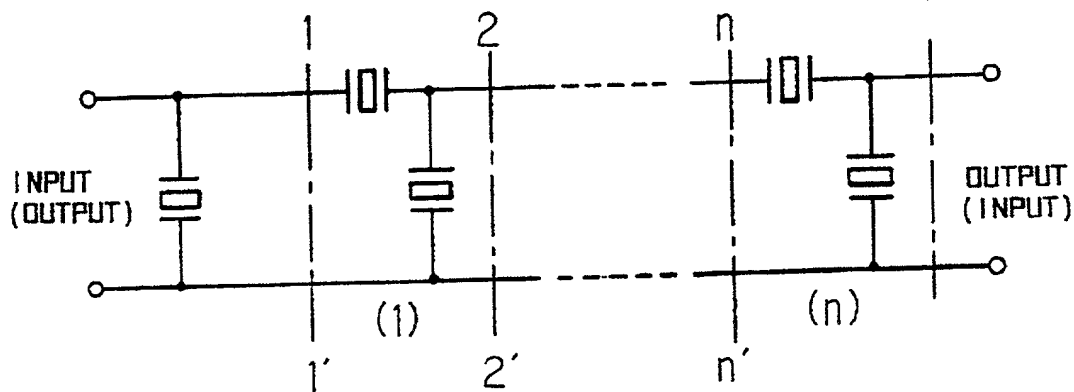


FIG. 59C

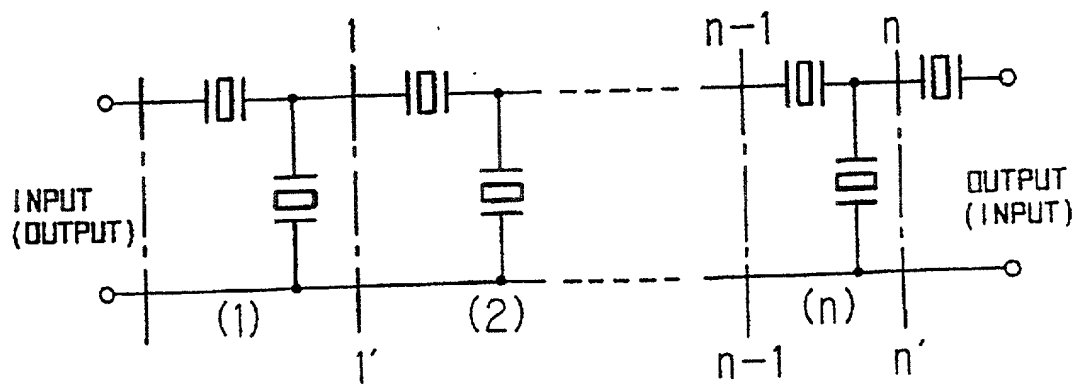


FIG. 59A



FIG. 6IA

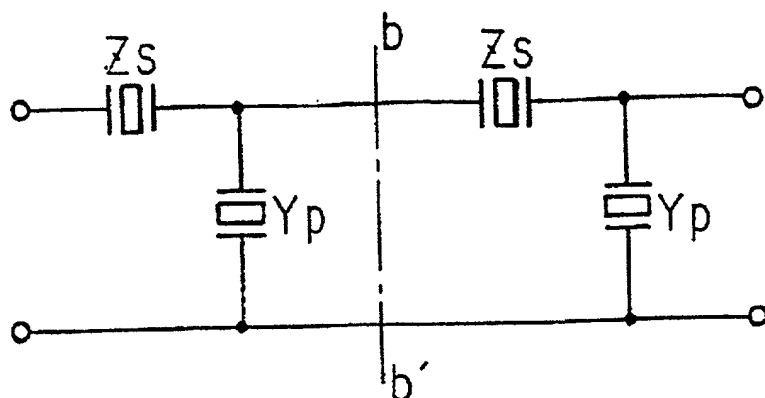


FIG. 6IB

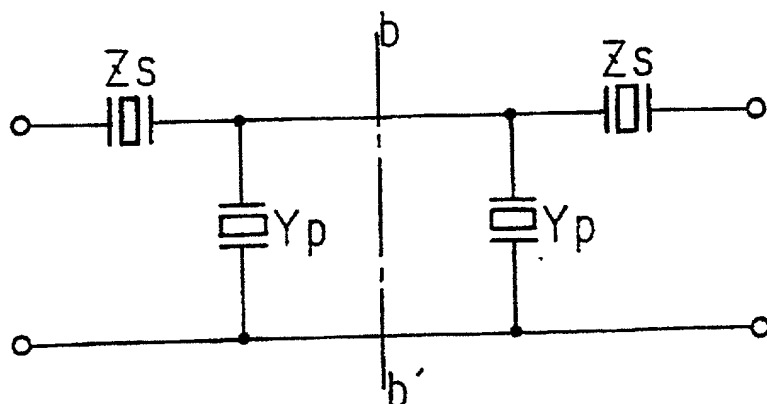


FIG. 6IC

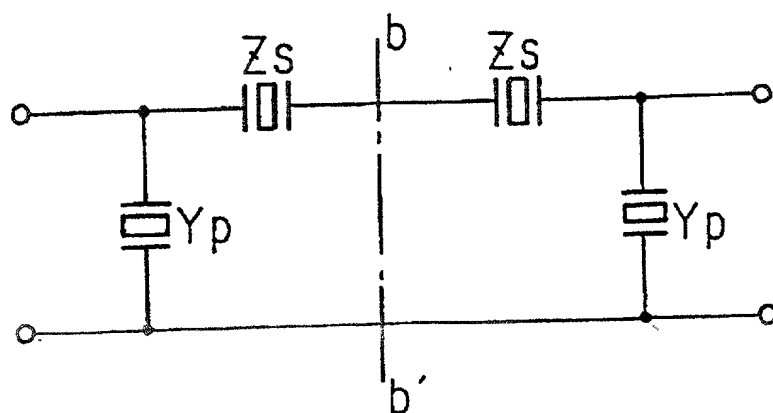


FIG. 62

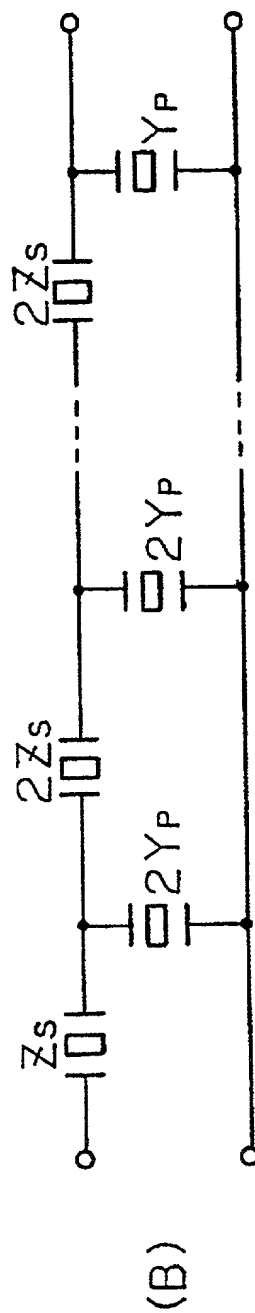
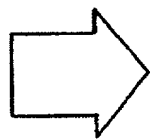
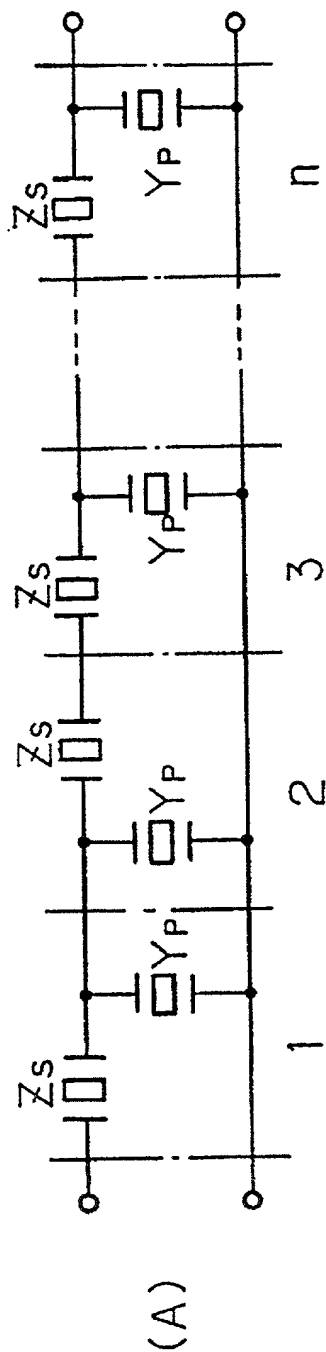


FIG. 630

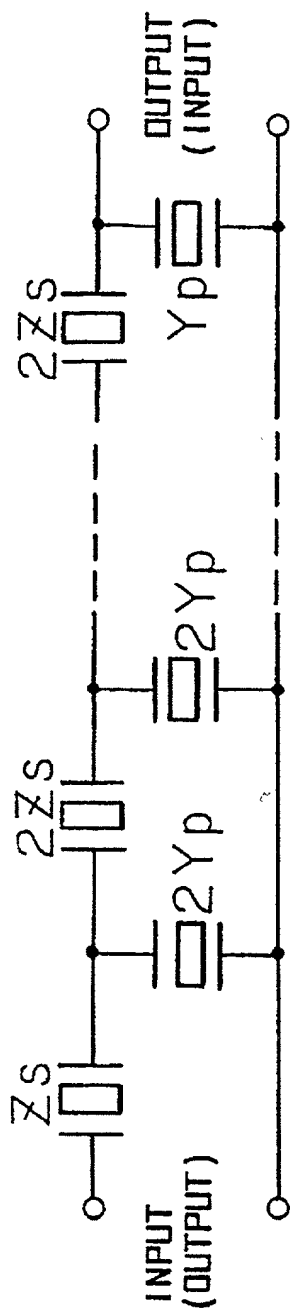


FIG. 63A

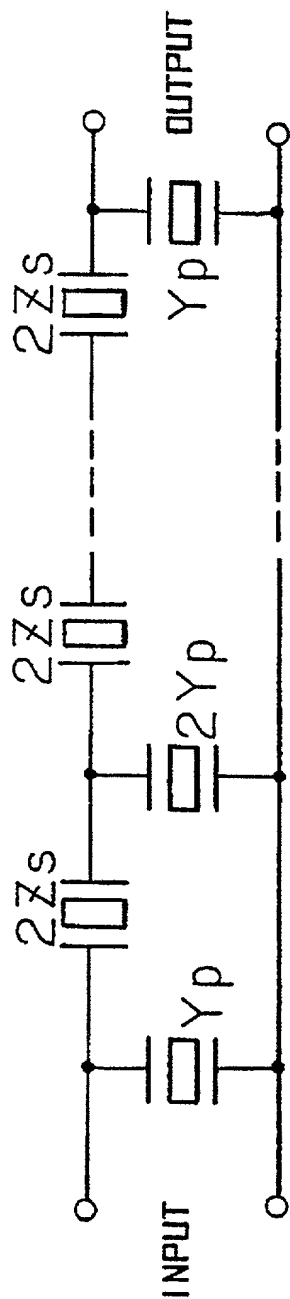


FIG. 63B

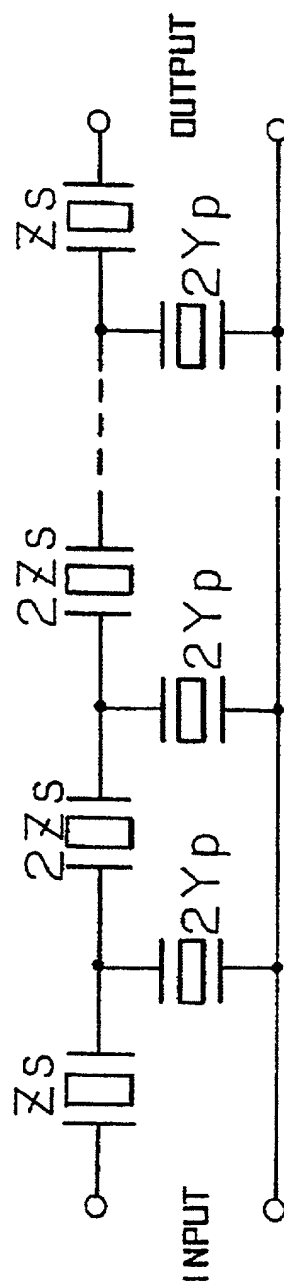


FIG. 63C

FIG. 64 PRIOR ART

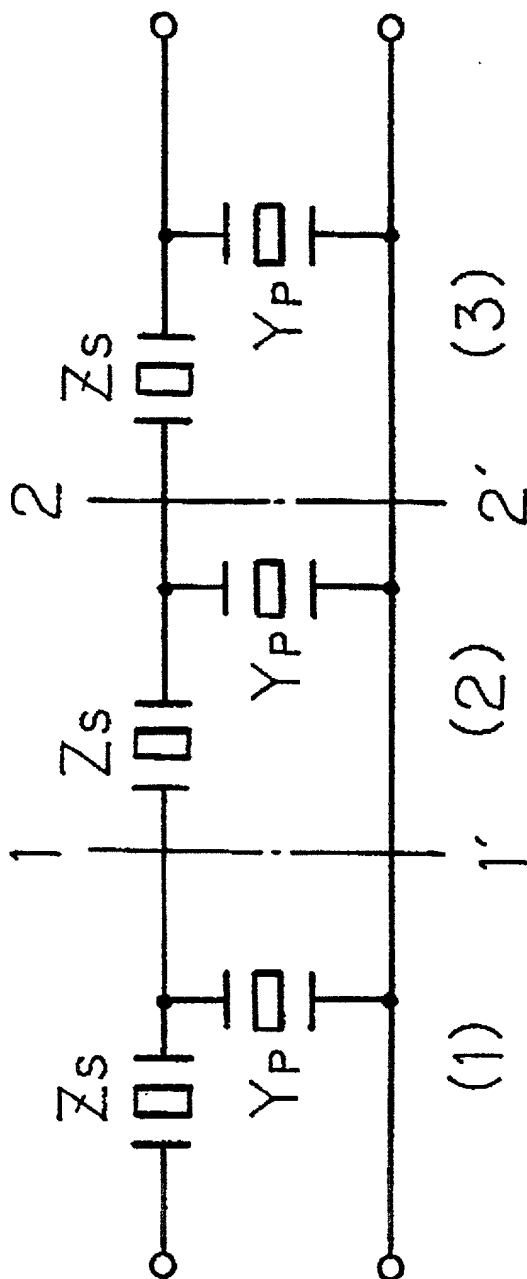
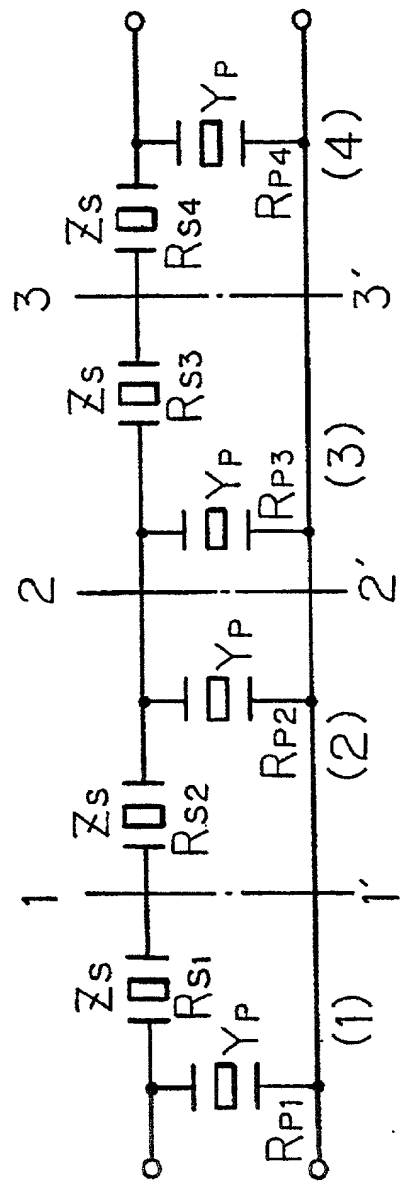


FIG. 65

FIG. 65



260

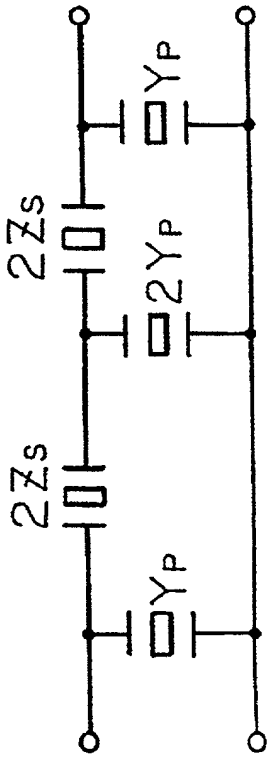
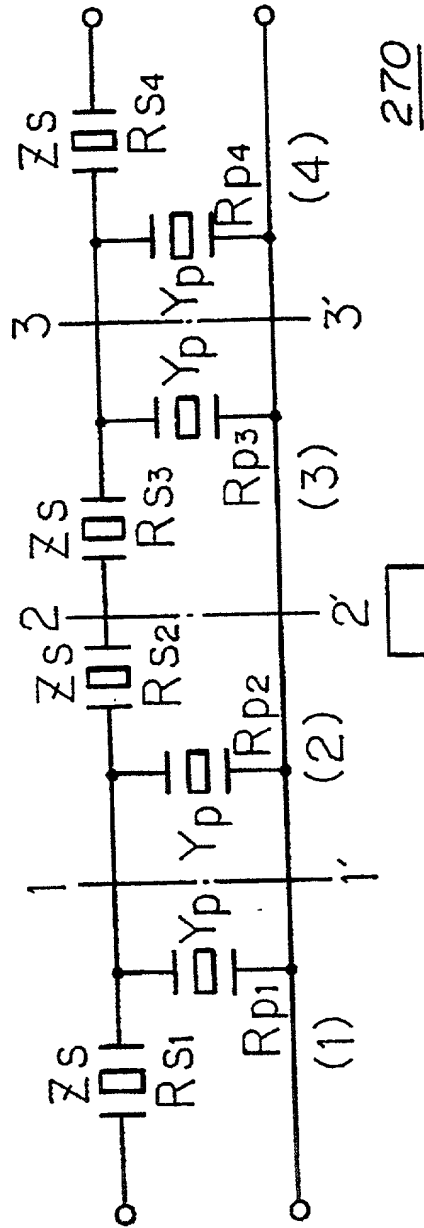


FIG. 66



270

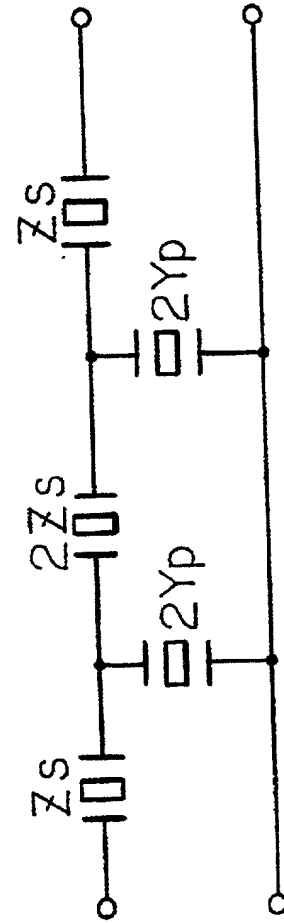


FIG. 67

280

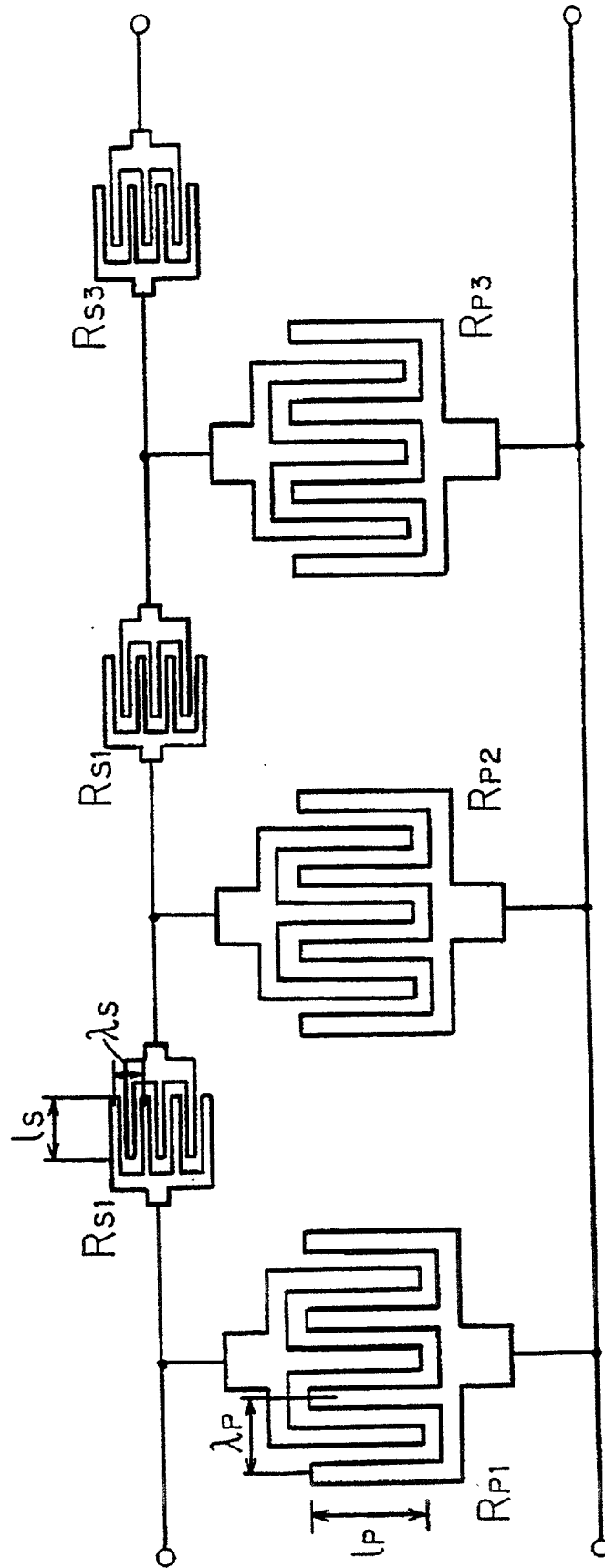
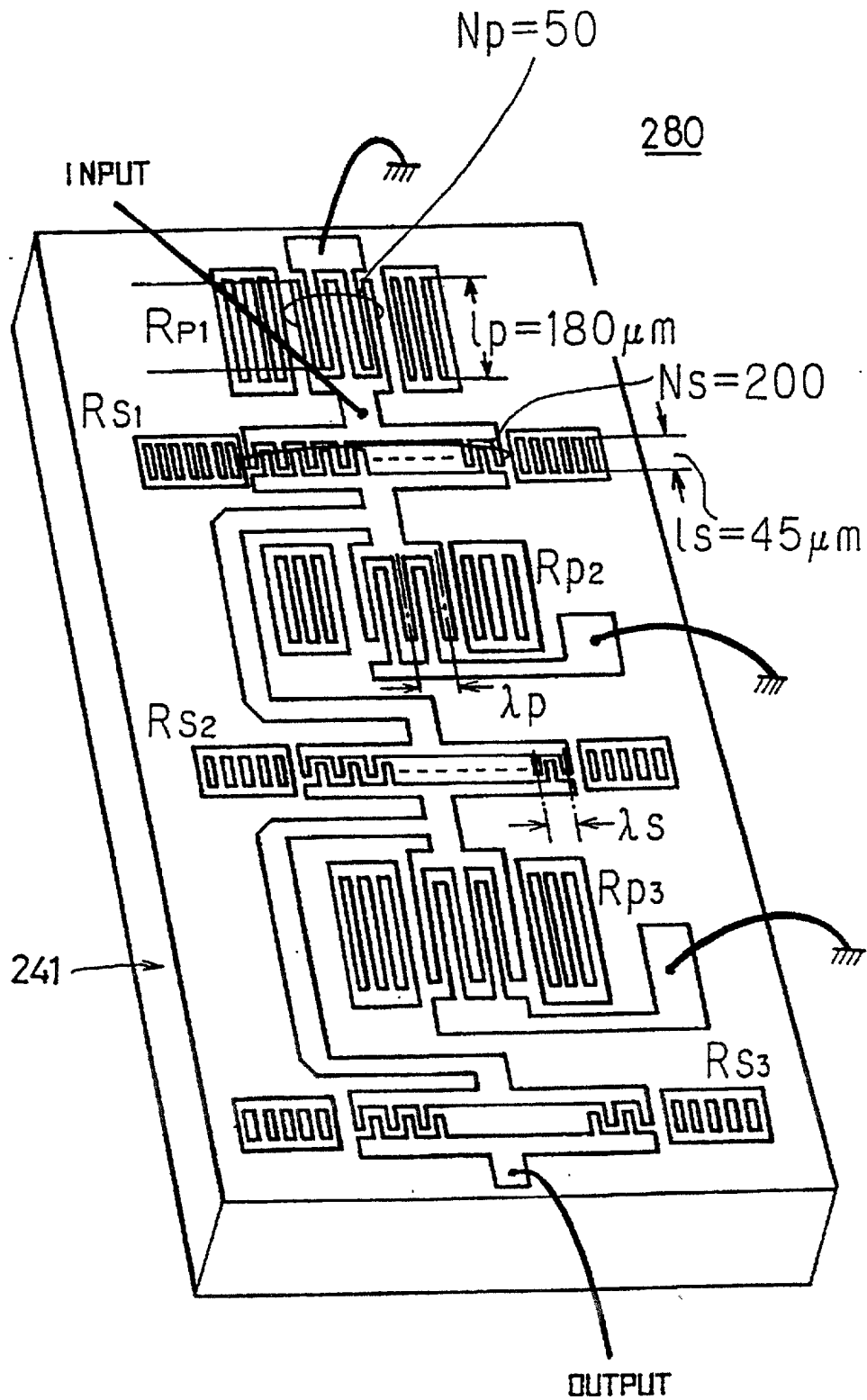


FIG. 68



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FIG. 69

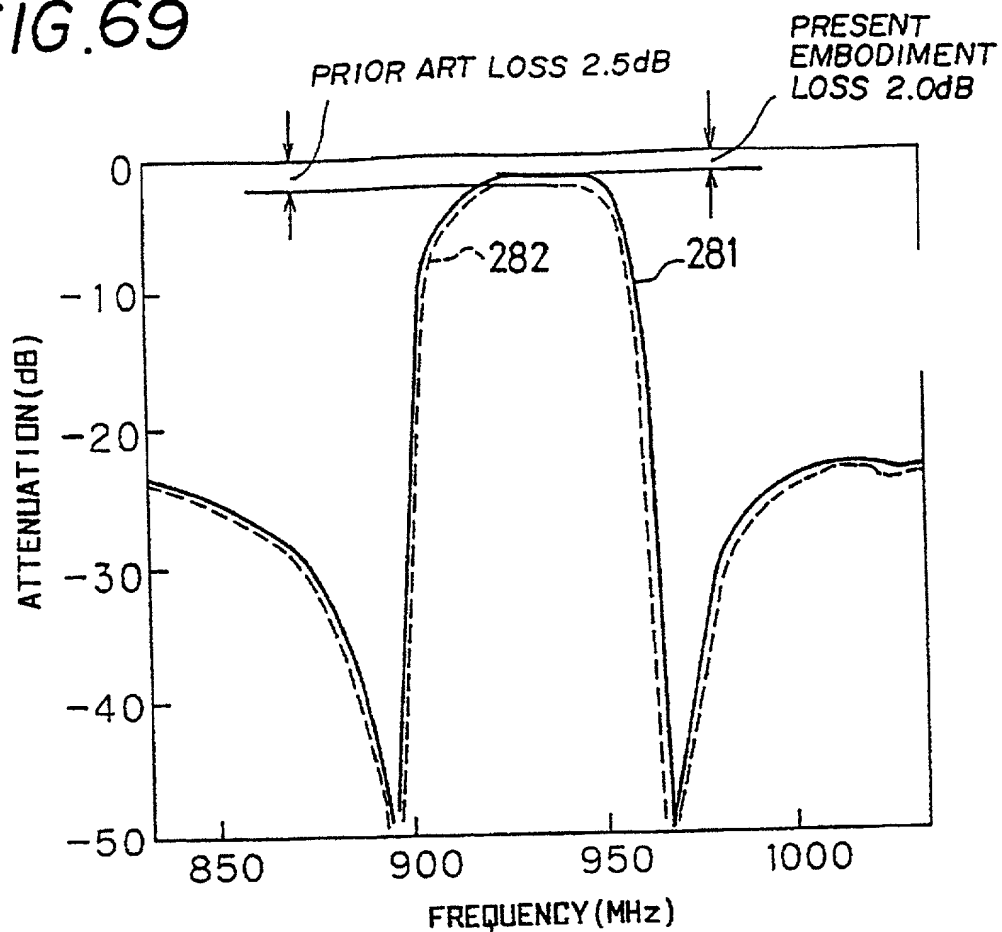


FIG. 70

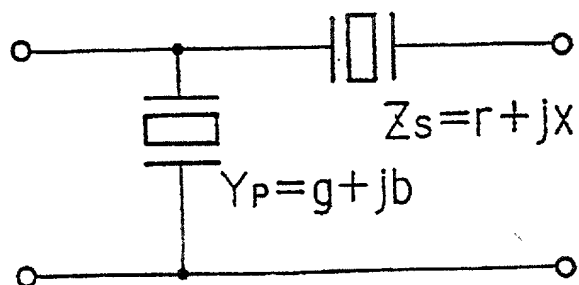


FIG. 71A

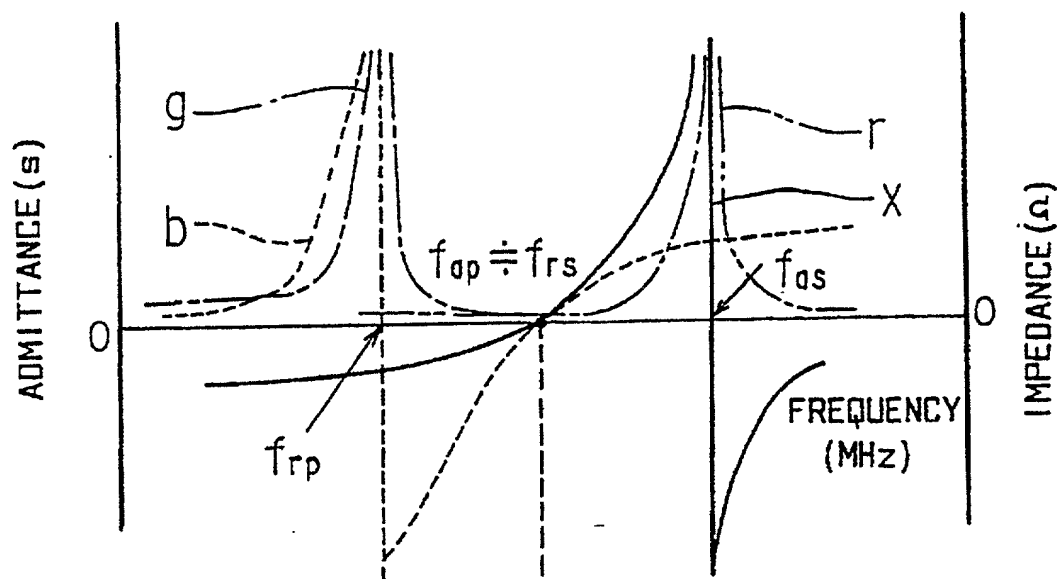


FIG. 71B

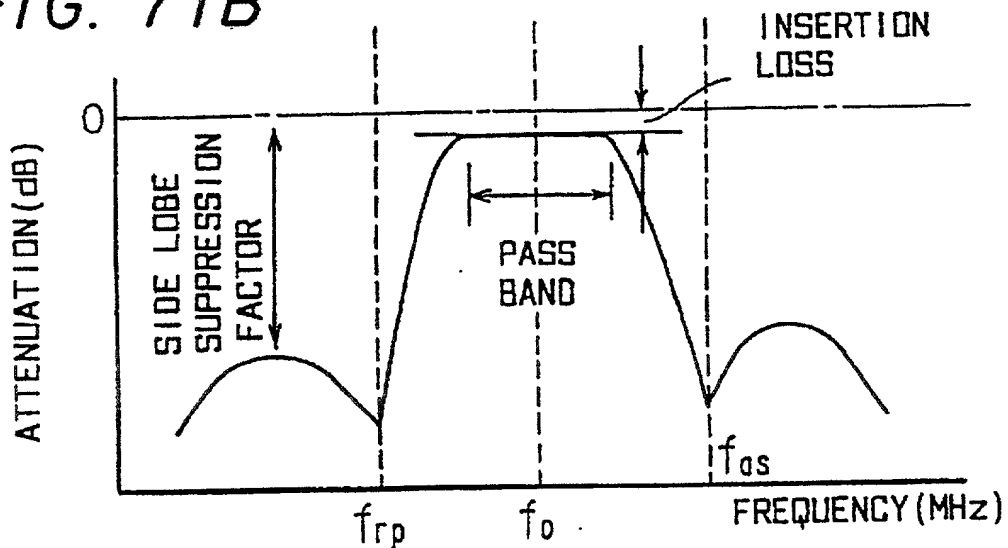


FIG. 72

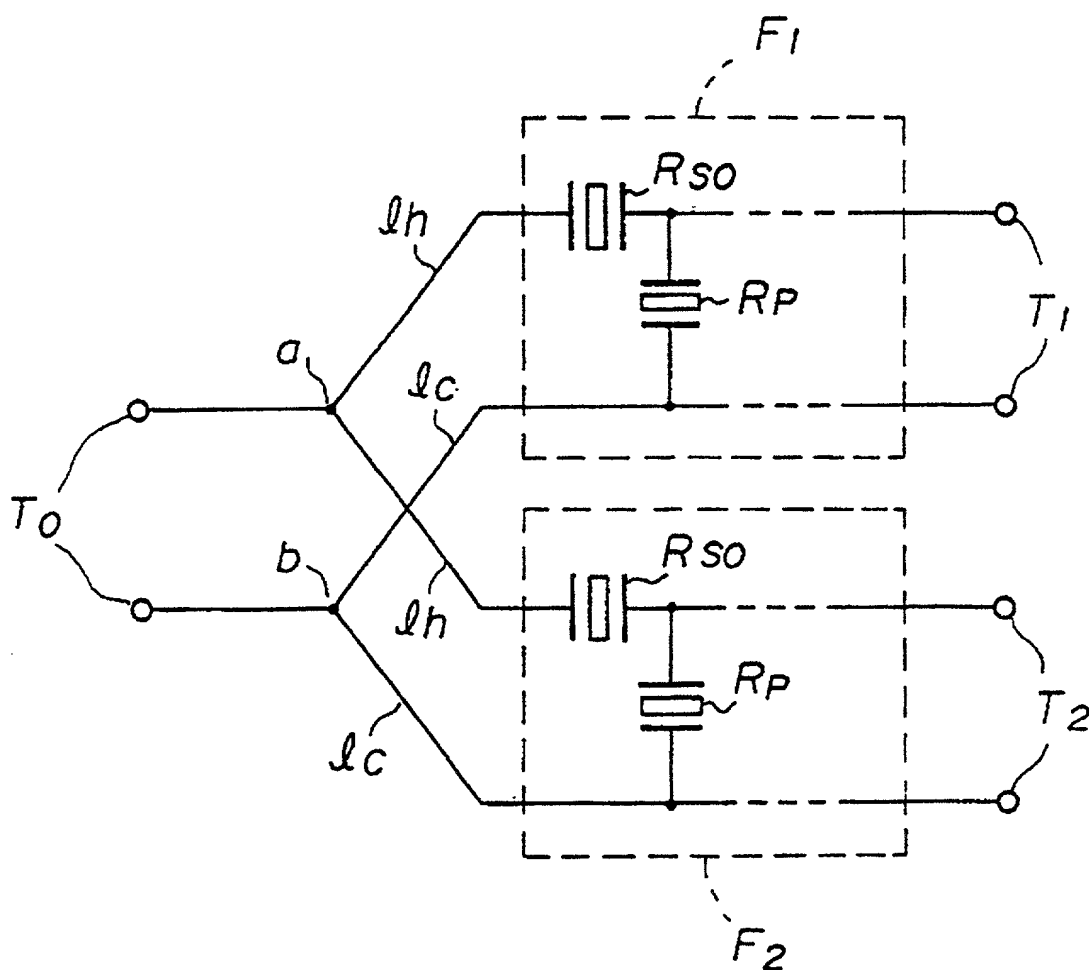
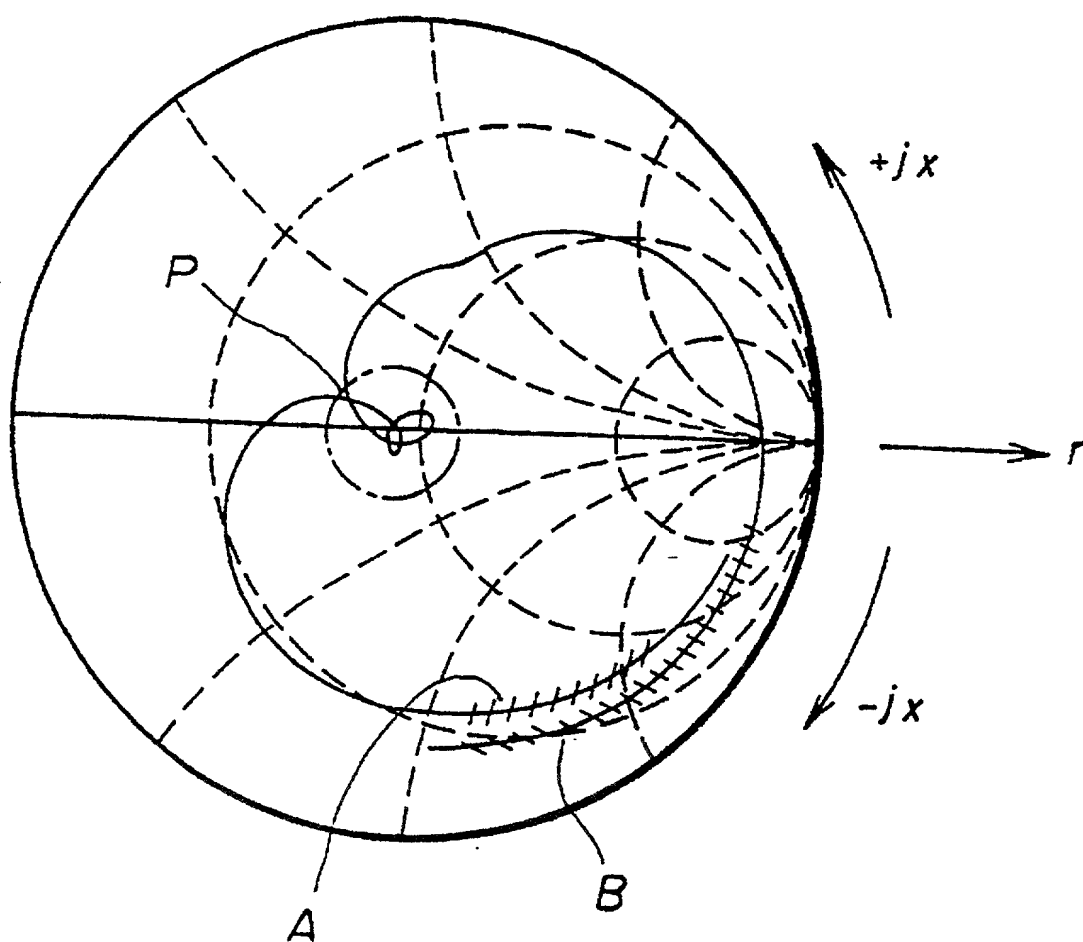
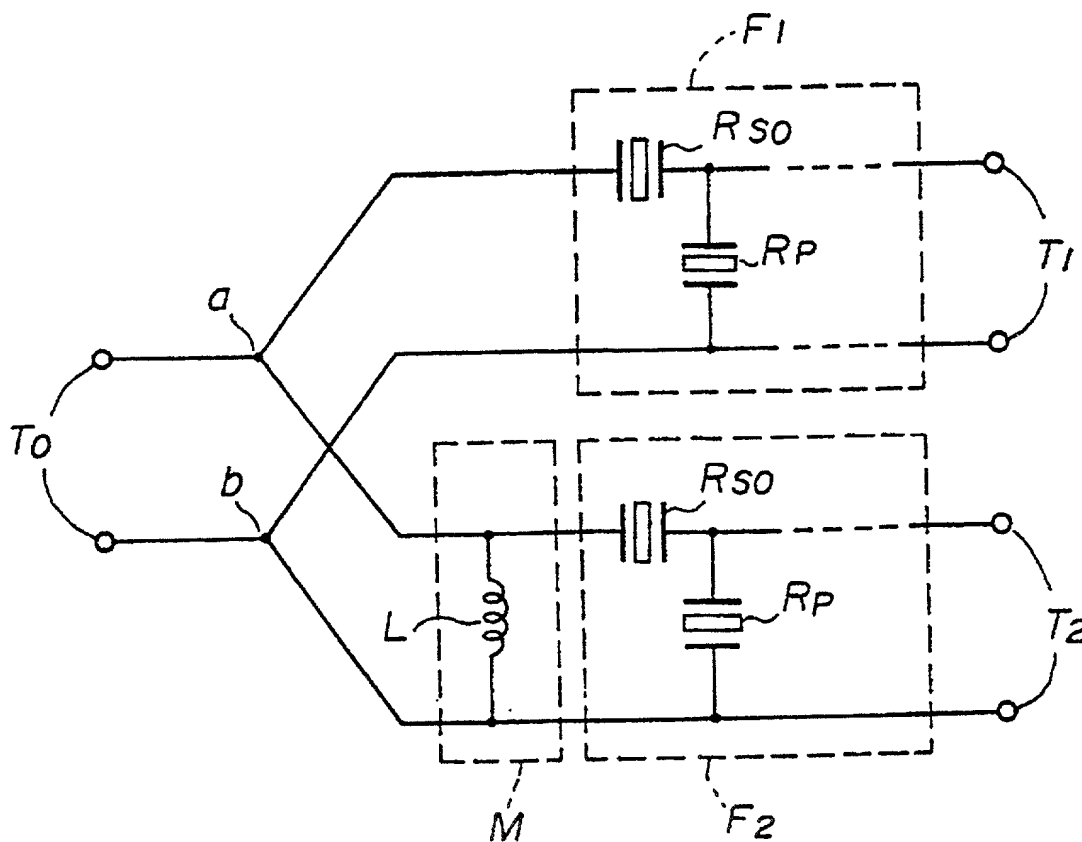


FIG. 72

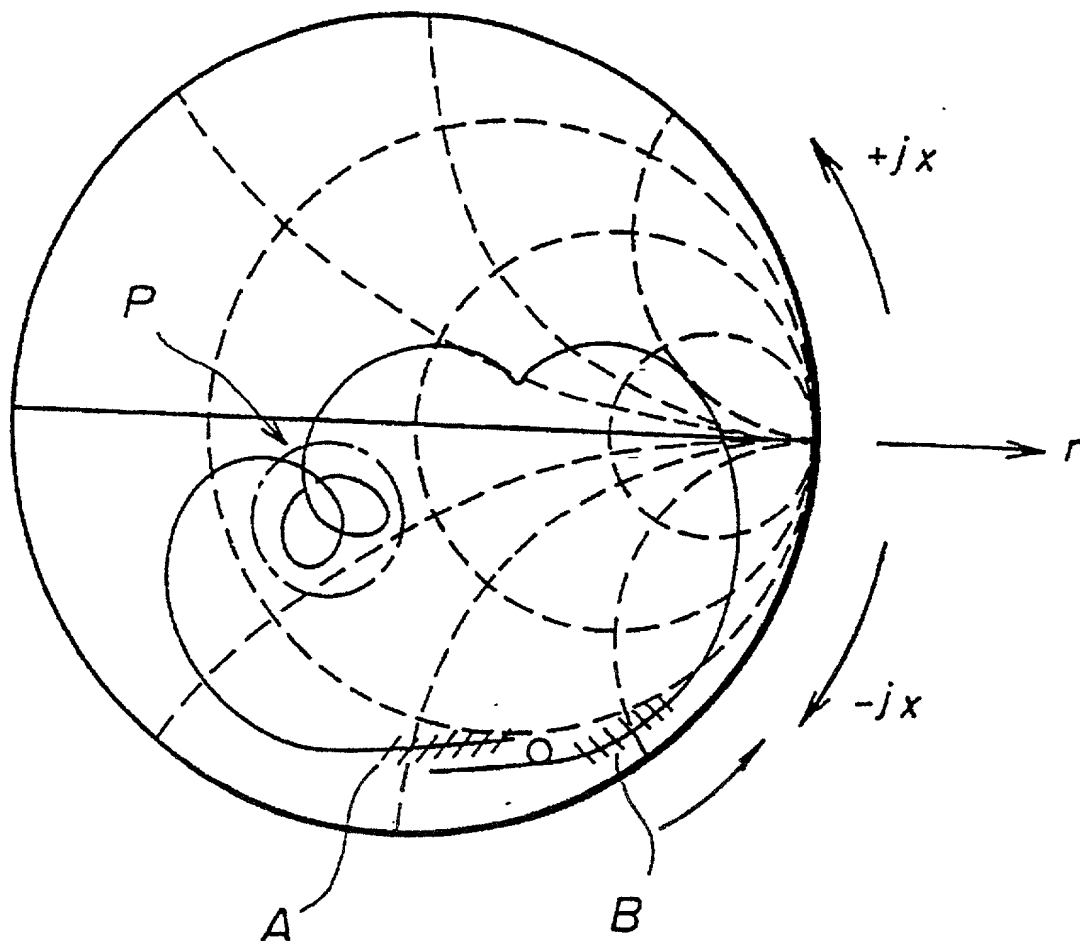
**FIG. 73**

FOOTNOTES: 24652660

FIG. 74

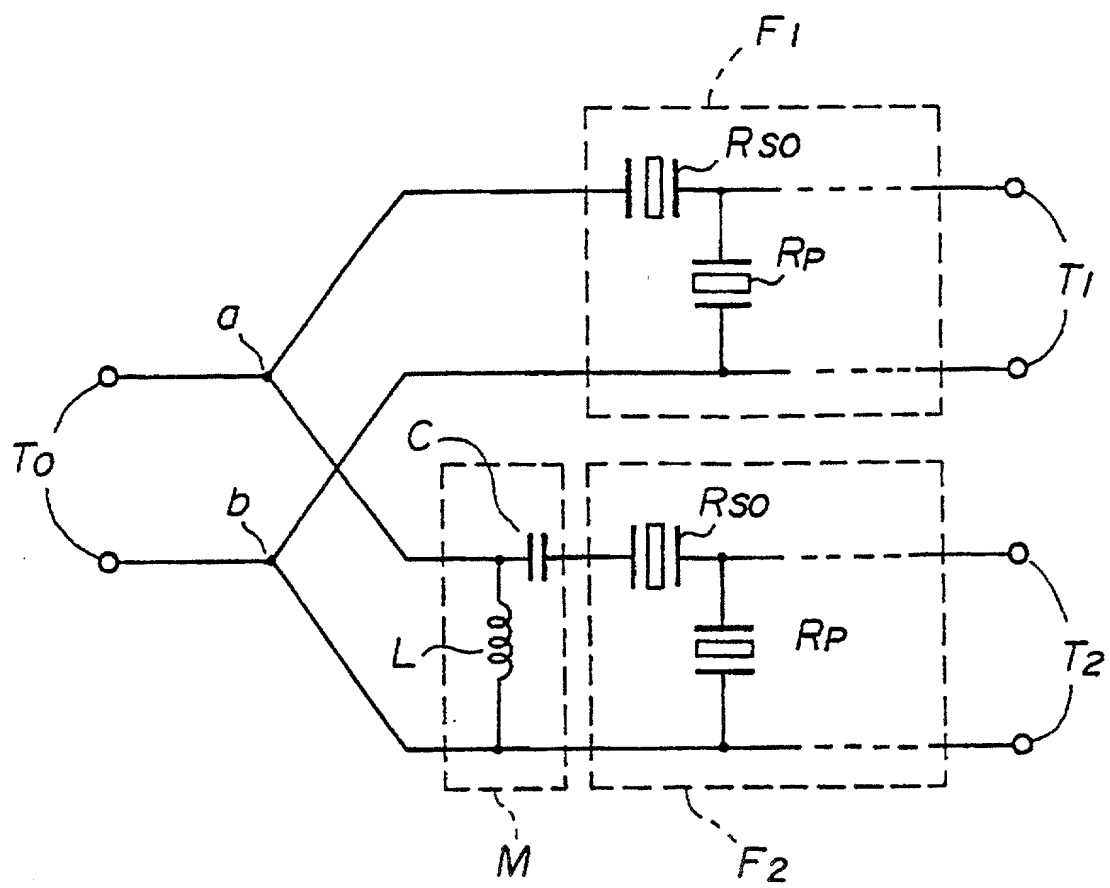


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**FIG. 75**

TOP SECRET 092544-034001

FIG. 76



092544-031001

**FIG. 77**

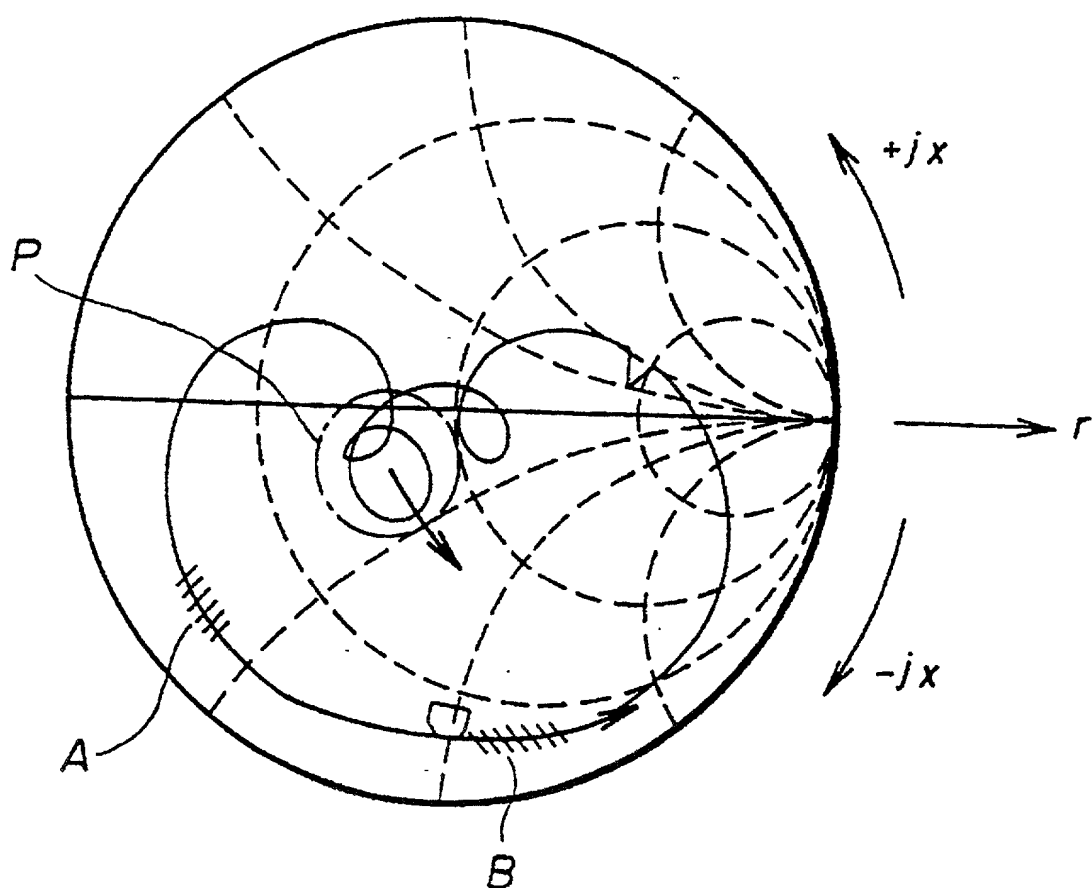


FIG. 77



FIG. 78

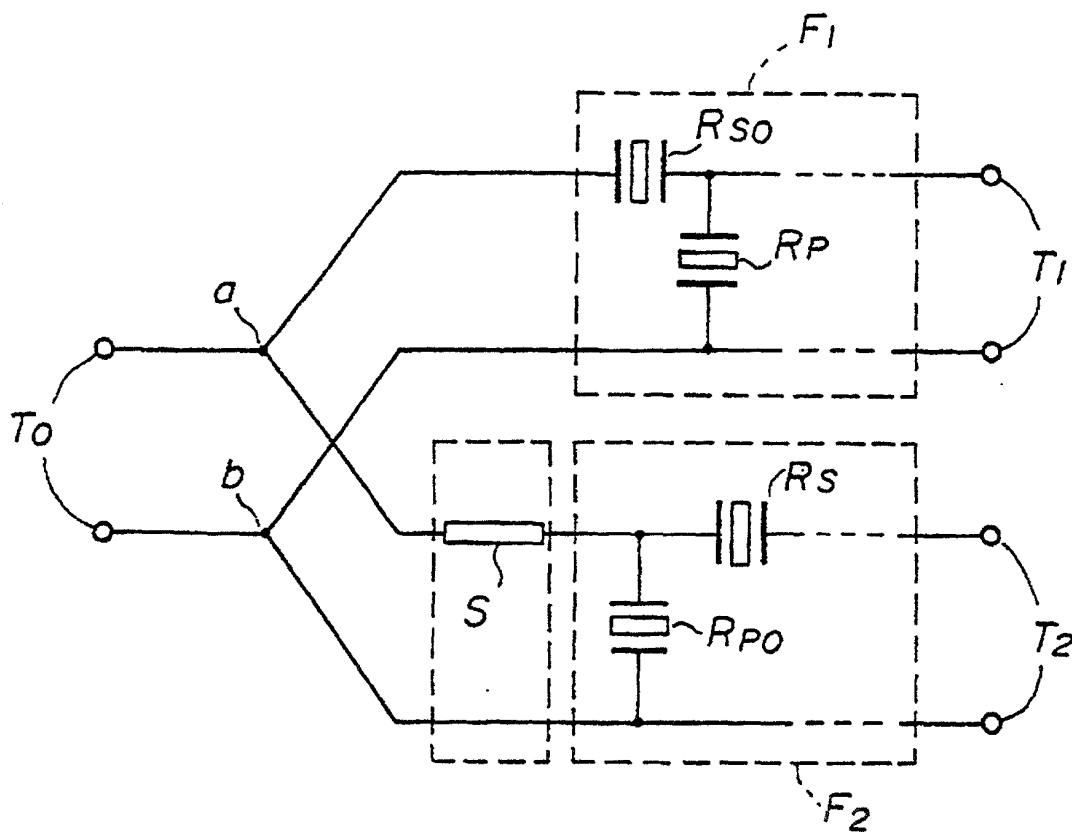


FIG. 78

FIG. 79

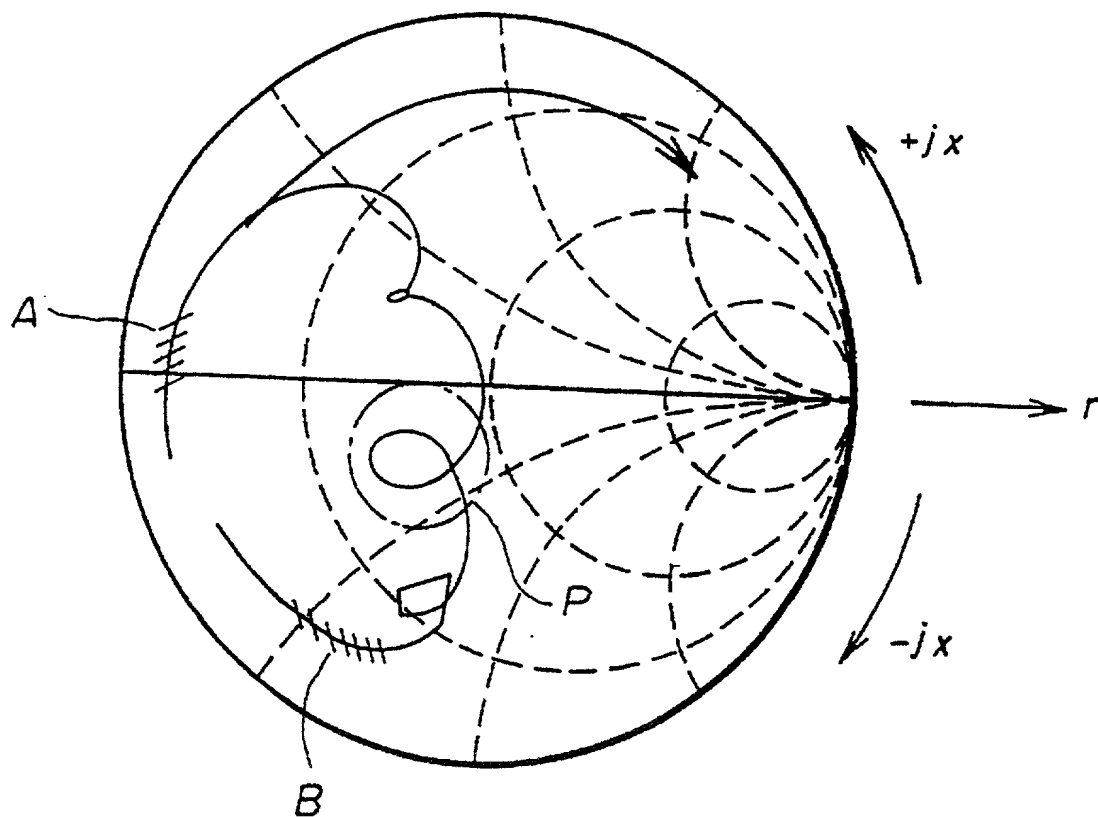


FIG. 79